WTC
Drawing Book 7

Chapters 7-8

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSSES - INDEX & GENERAL NOTES | DATE 1-17-69

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REVISIONS
2-3-69
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GENERAL NOTES

1. All material, including detail material to be Fy = 50 except as noted. 1½" x 5/8" Straps(Detail 12),15" & 18" channels(Detail 13) and deck support angles(Detail 12 & 16) to be Fy = 36.
2. All welding shall be accomplished using E70xx low hydrogen electrodes or other equivalent, approved welding process. Field welding shall be performed under Contract WTC-230.00.
3. All bolted connections shall be friction type connections. All bolts shall be ASTM A325 bolts except where ASTM A490 bolts are specifically called for in the drawings. Washer shall be used under both bolt head and nut at all locations with oversize or elongated holes, in accordance with the requirement of FB1, FB2 & FB3. Bolts and washers will be supplied under Contract WTC-234.00 and installed under Contract WTC-230.00.
4. All floor truss angles have long legs back to back or vertical unless noted (SV) in the drawings, in which case, short legs shall be back to back or vertical.
5. Forces in truss members are indicated thus in the drawings:
   Compression (-)
   Tension (+)
6. All 29T trusses shall be cambered to a parabolic camber. Camber diagrams 7-B7-26 indicates required camber at mid span.
7. Truss details are shown in 7-B8. See index 7-B8-1.
8. See SB-18, SB-19, SB-20 & SB-21 for location of trusses. See SB-18, SB-19, SB-20, SB-21 and this chapter of Drawing Book 7 (7-B7) for location of Details.
9. See SB-184, SB-185, SB-186 & SB-187 for Steel Deck Plans and Shear stud location and number. Steel deck shall be furnished under Contract WTC-222.00 and installed under Contract WTC-230.00. Shear studs shall bs furnished and installed under Contract WTC-230.00
10. Seats for trusses at core perimeter are shown in Drawing Book 6 and furnished under Contract WTC-226.00. Seats for trusses at the exterior wall are shown in Drawing Book 4 and furnished under Contract WTC-214.00.
11. Work lines for diagonal and vertical web members shall be the applicable X or Y dimension shown in the AISC Manual, Sixth Edition, rounded to the nearest 1/16 inch, except that where a specific work line is dimensioned in the Drawings, the dimensioned work line shall be used.

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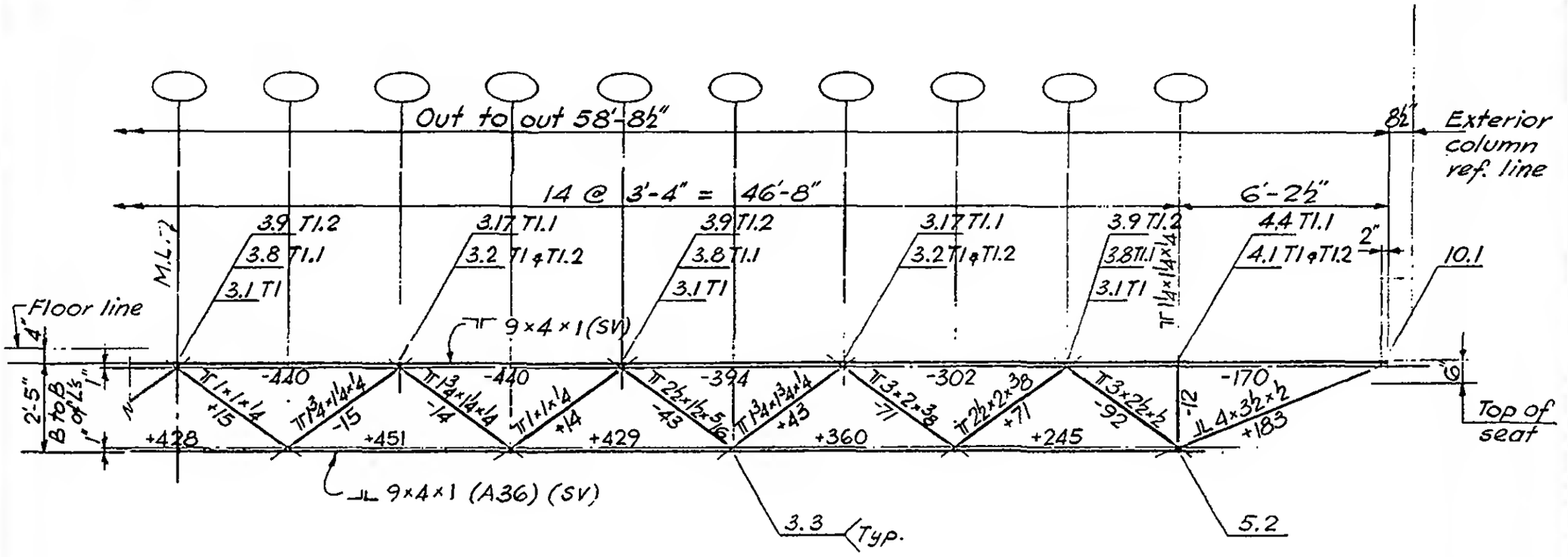
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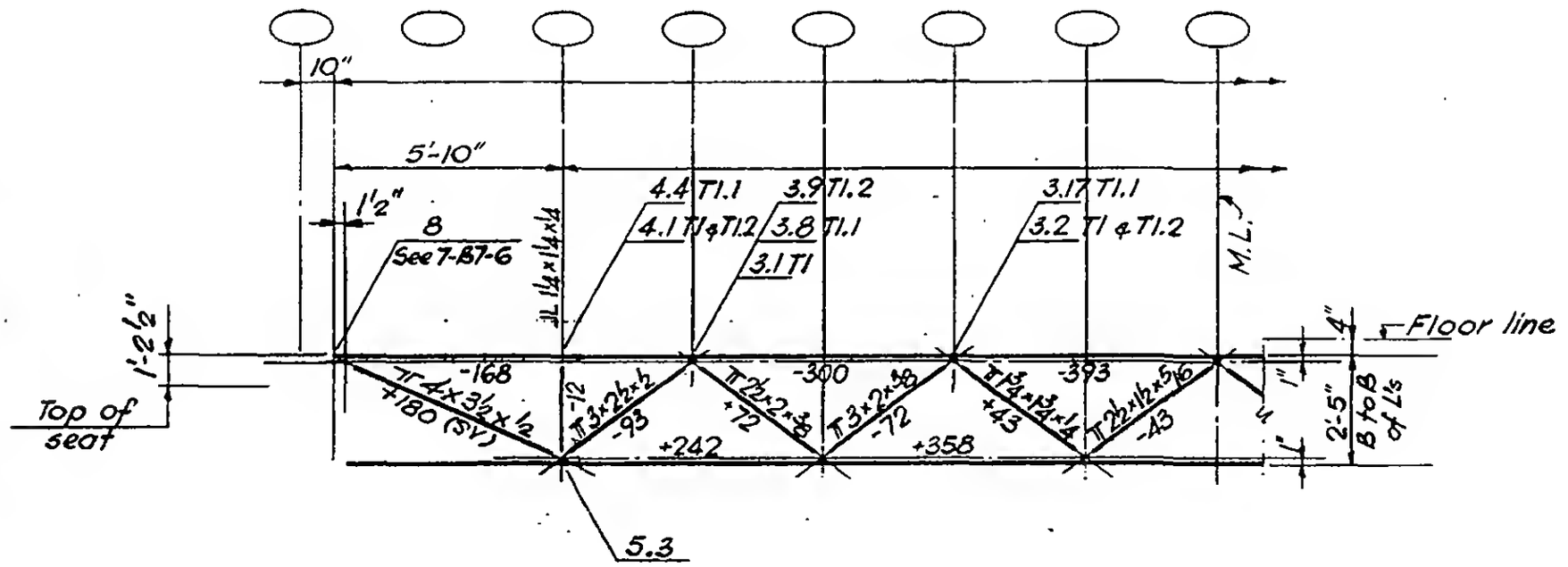
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TITLE FLOOR TRUSS 29TI, 29TI.1, 29TI.2

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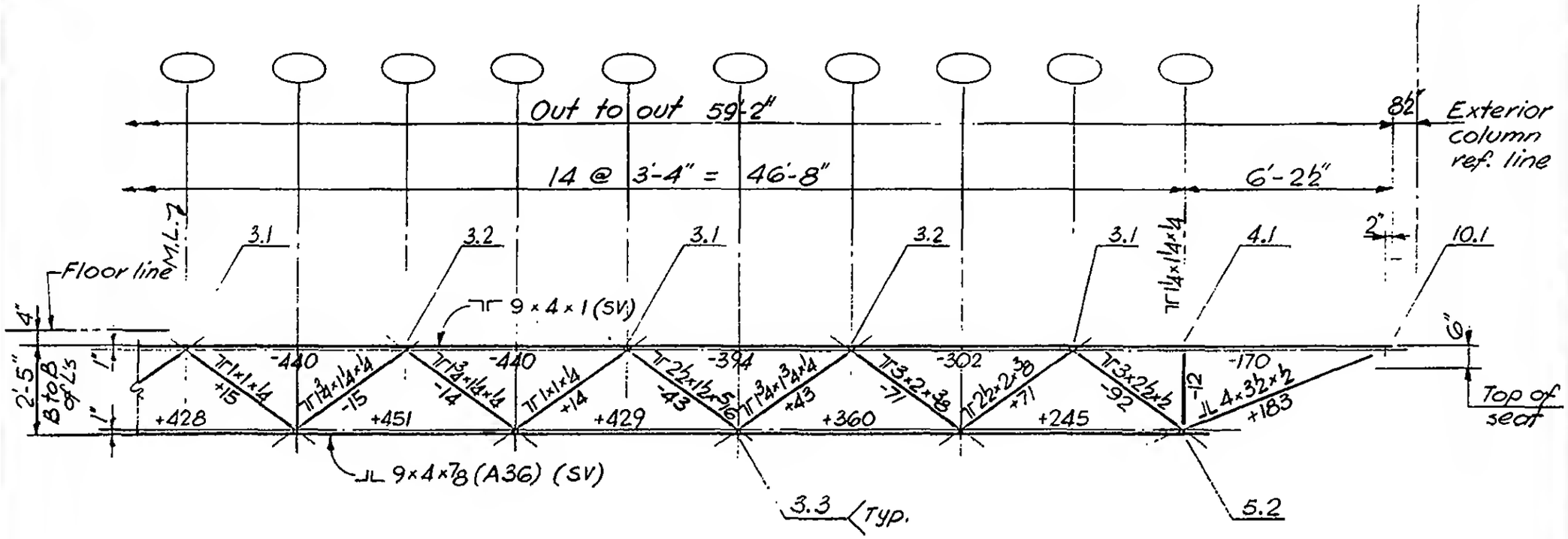
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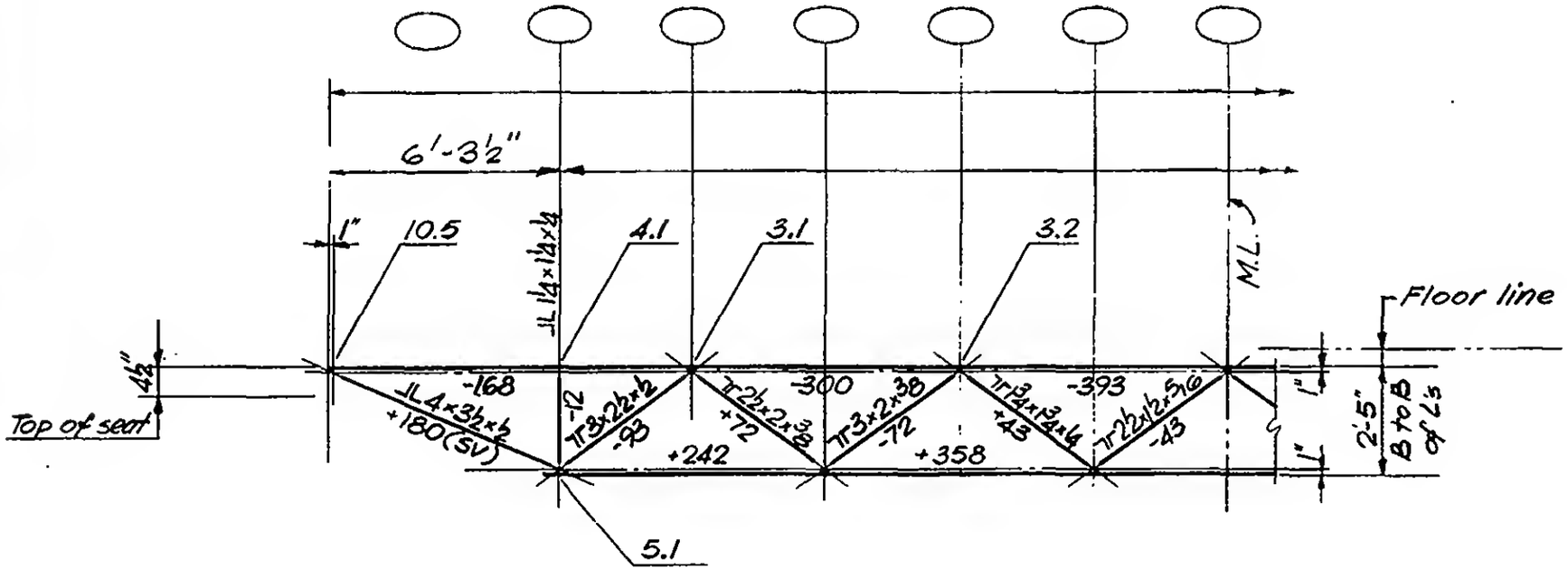
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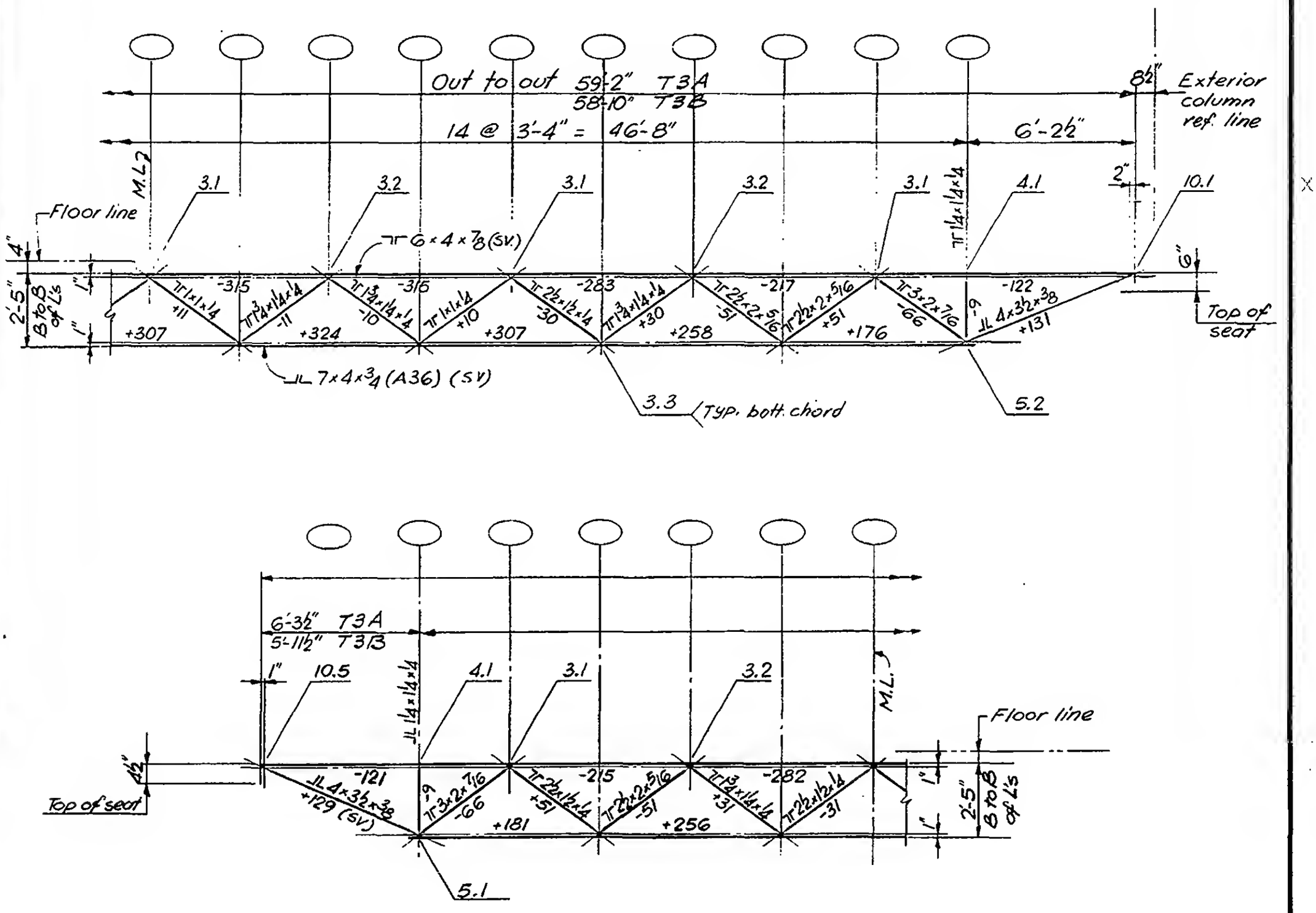
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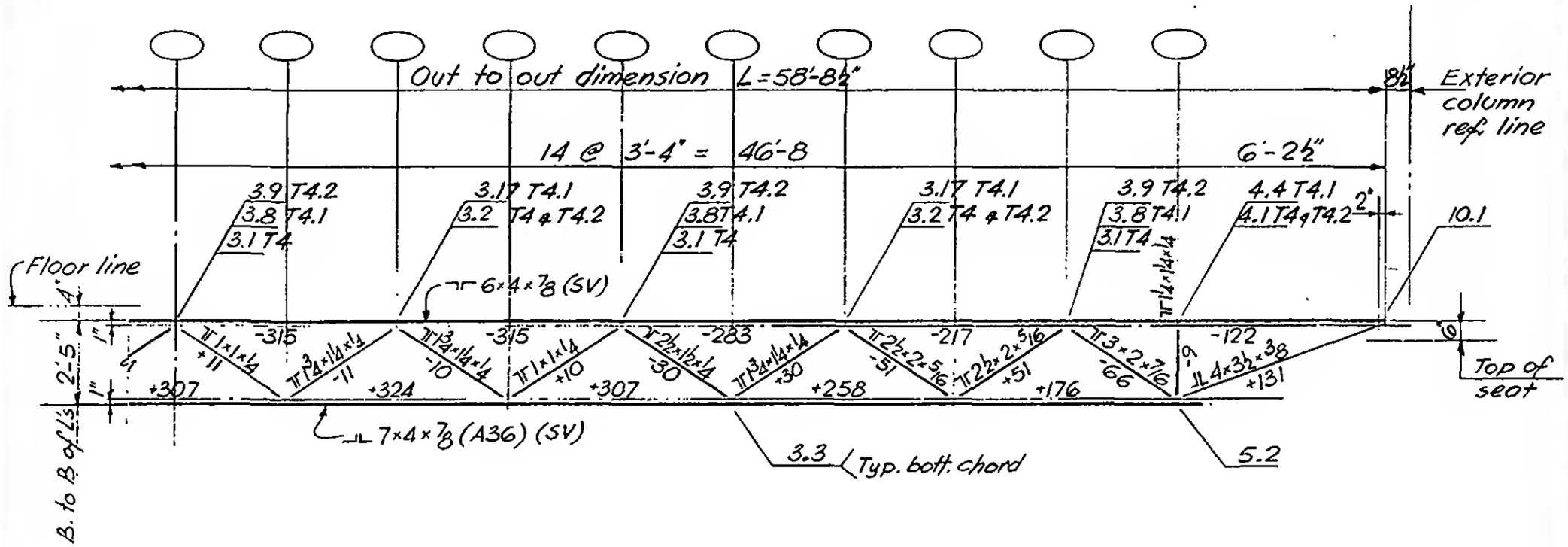
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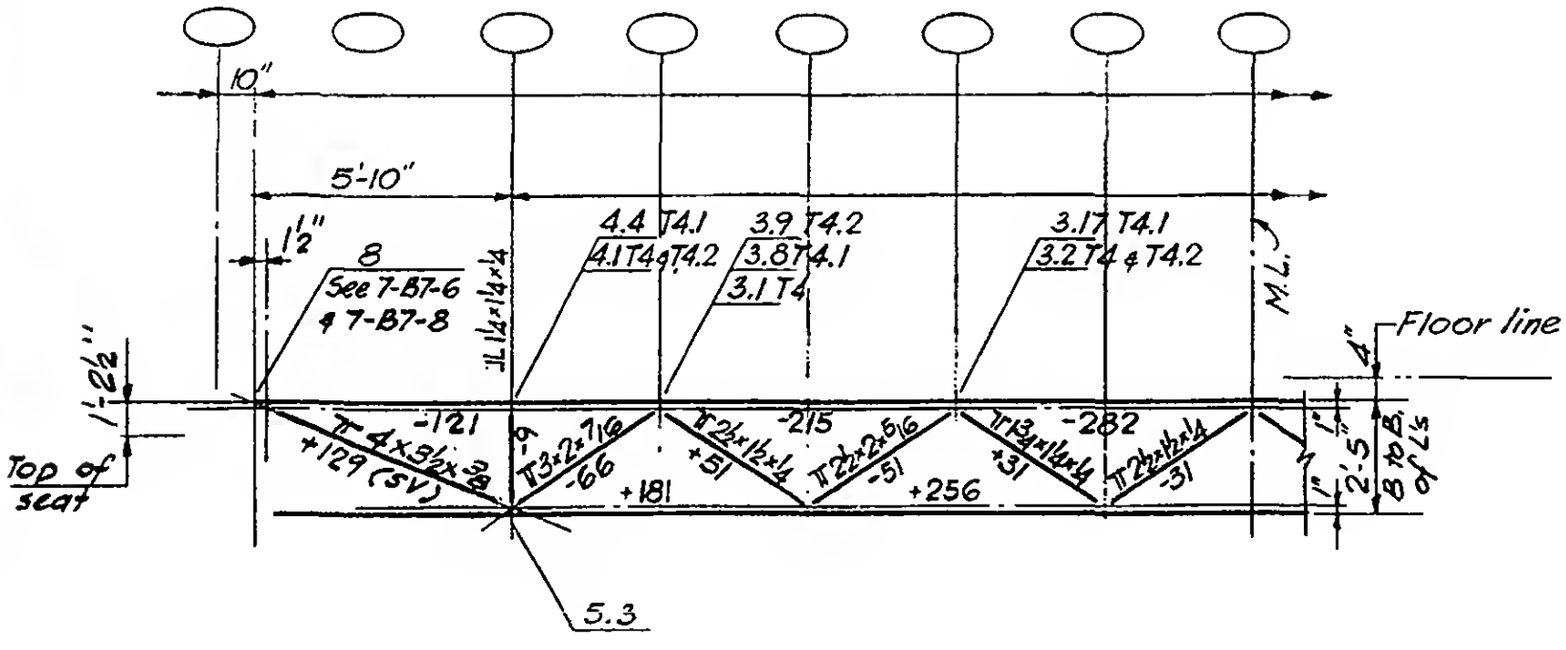
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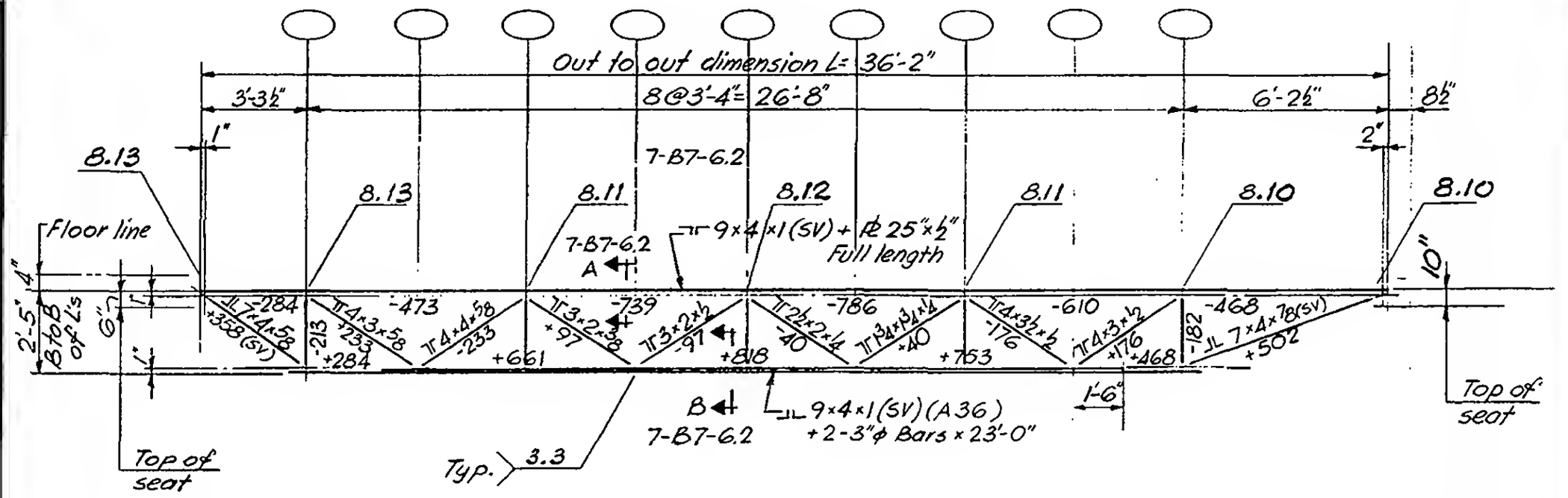
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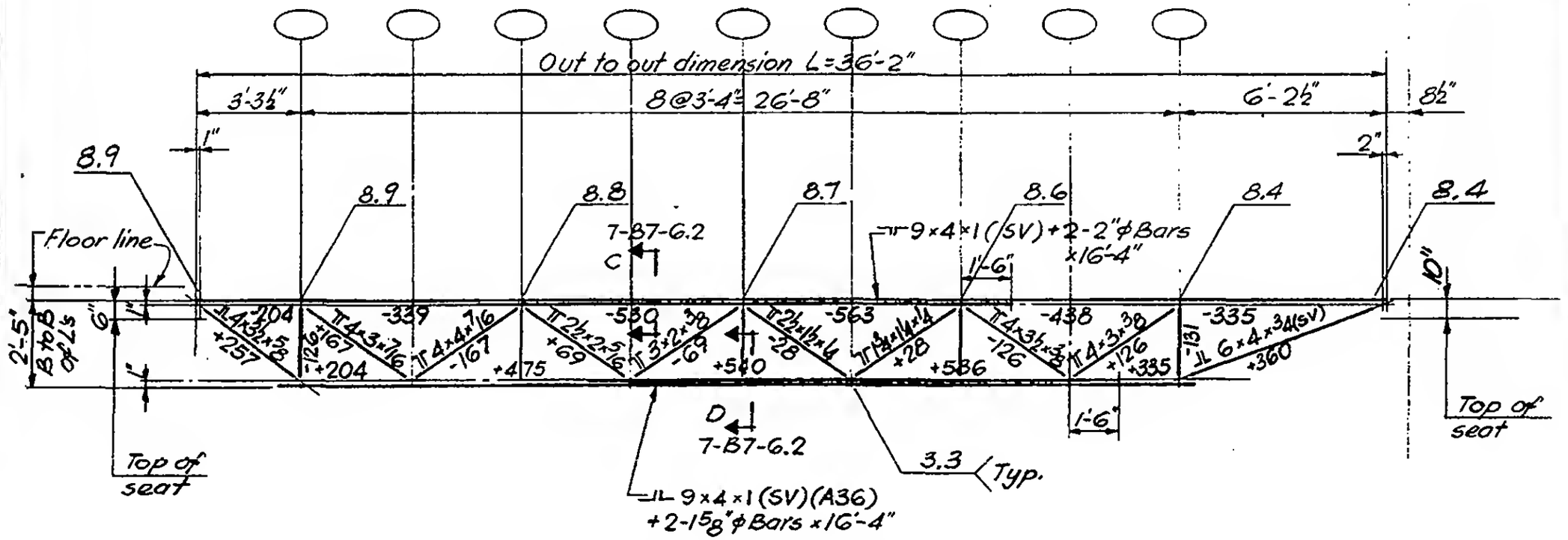
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Elevation 29T5



Elevation 29T6

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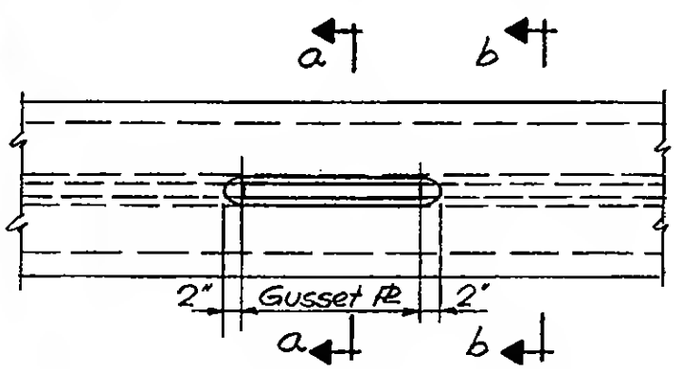
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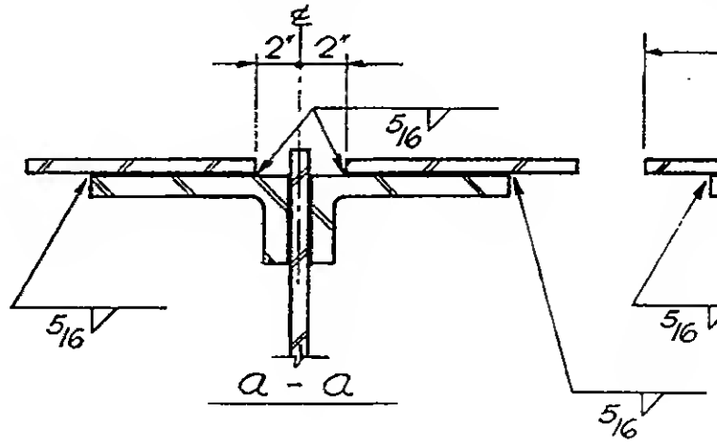
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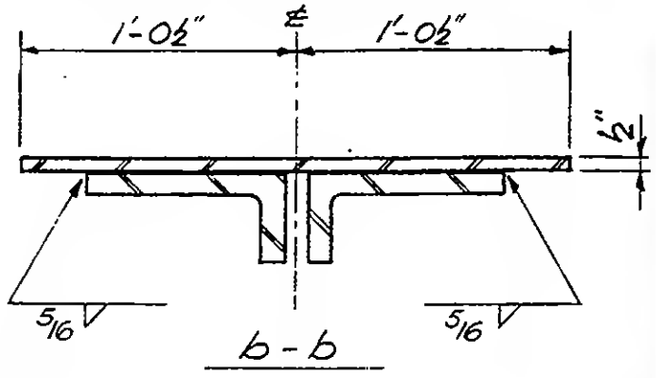
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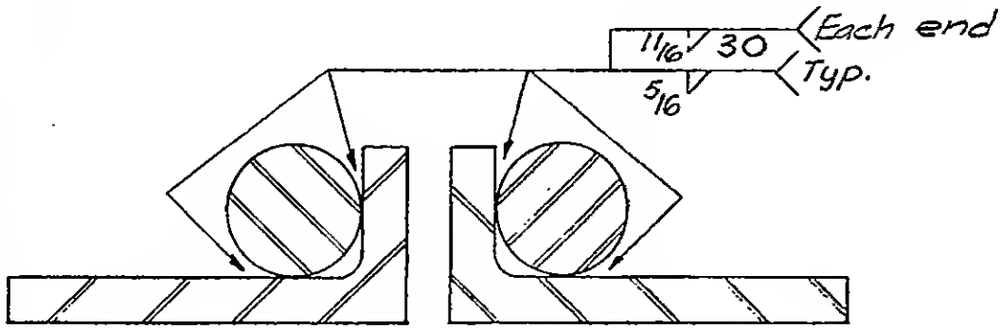


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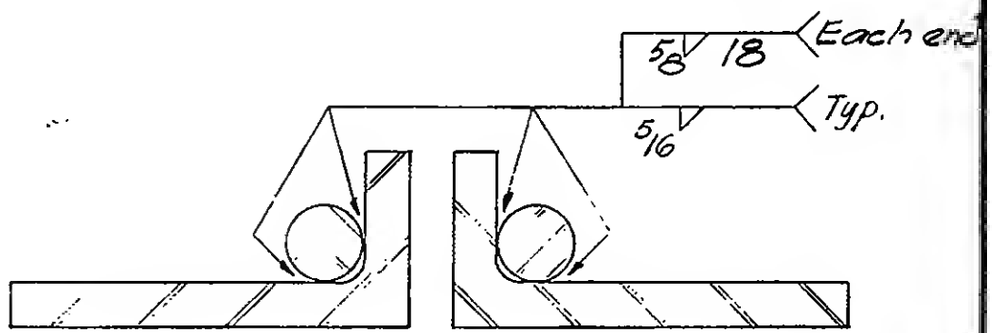




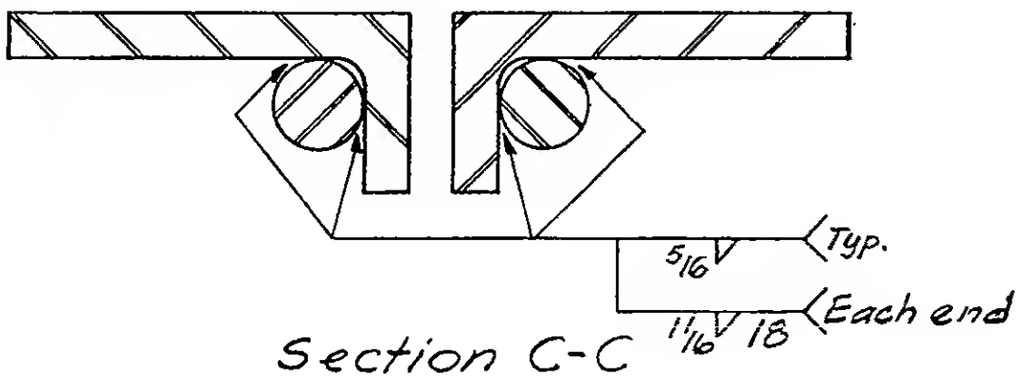
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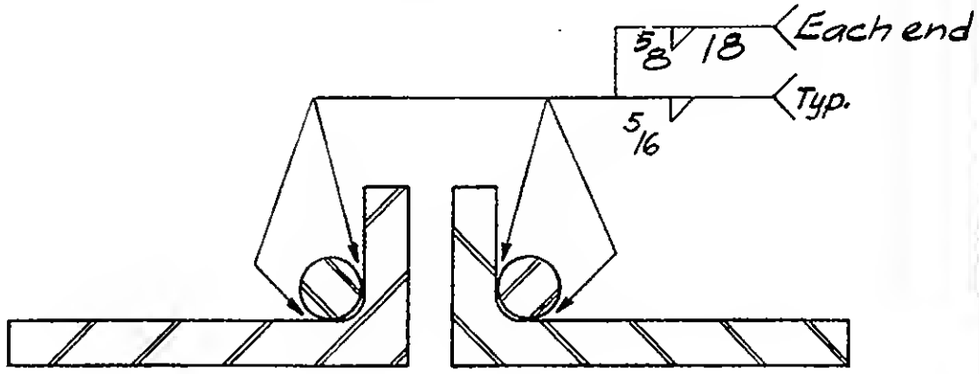
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Section D-D



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Section E-E

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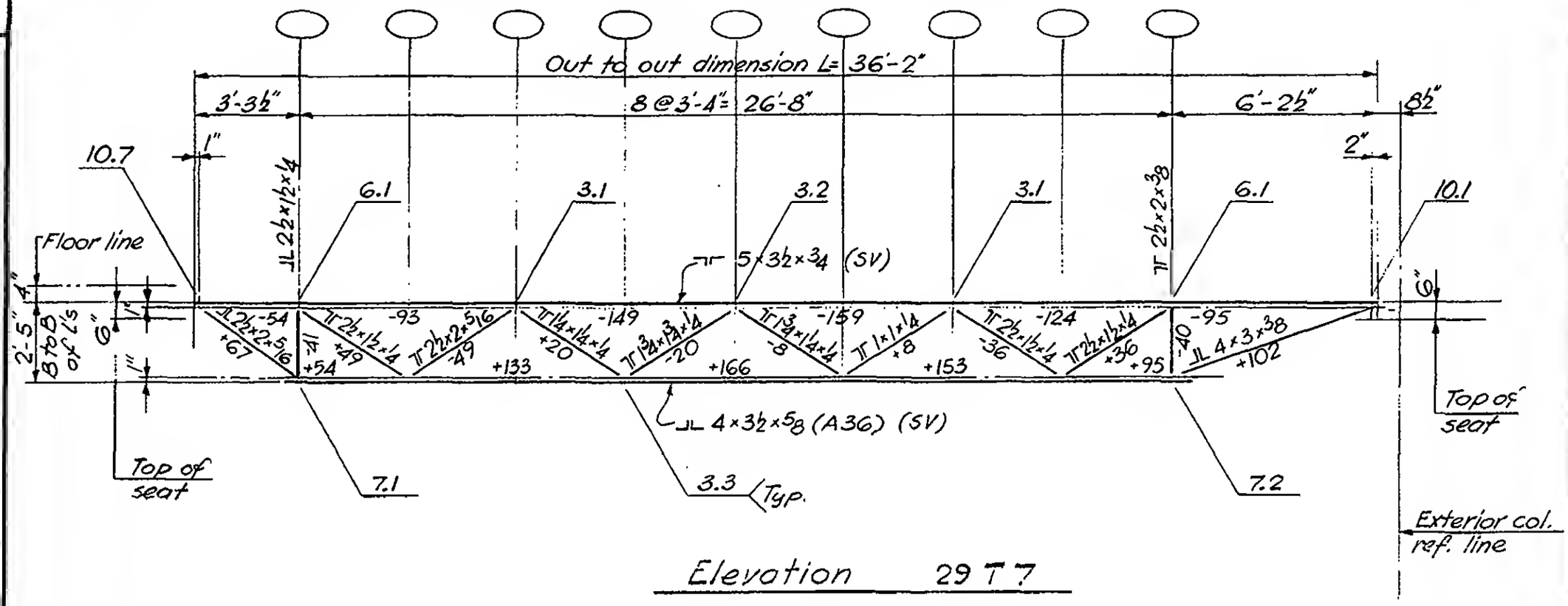
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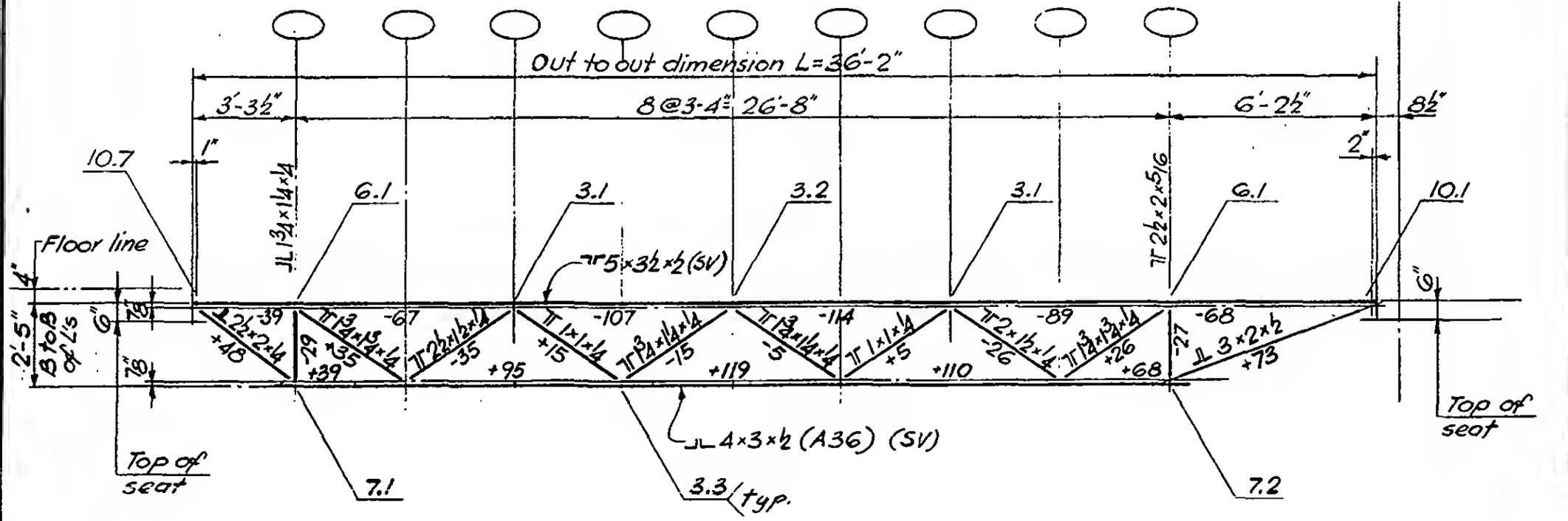
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Elevation 29T7



Elevation 29T8

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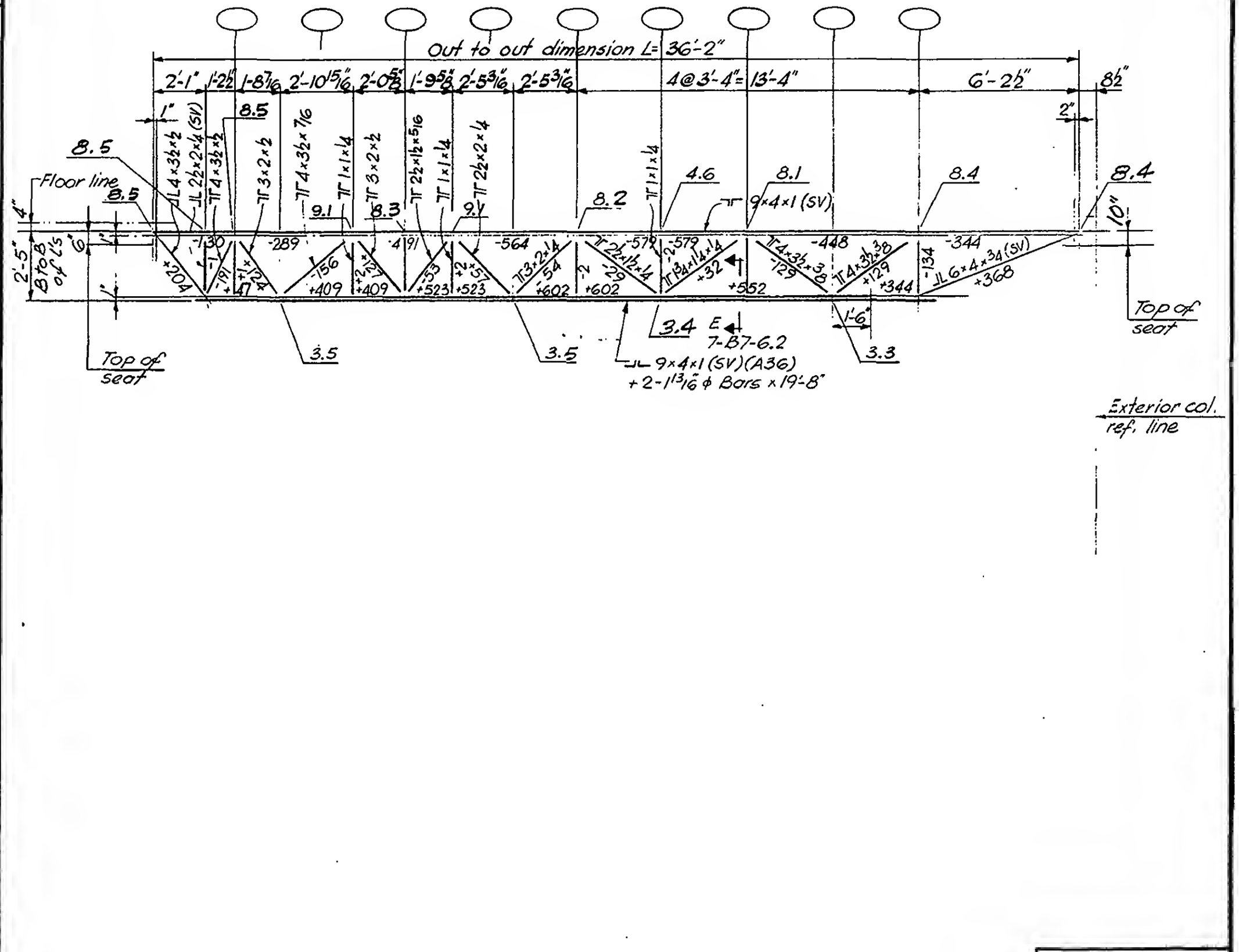
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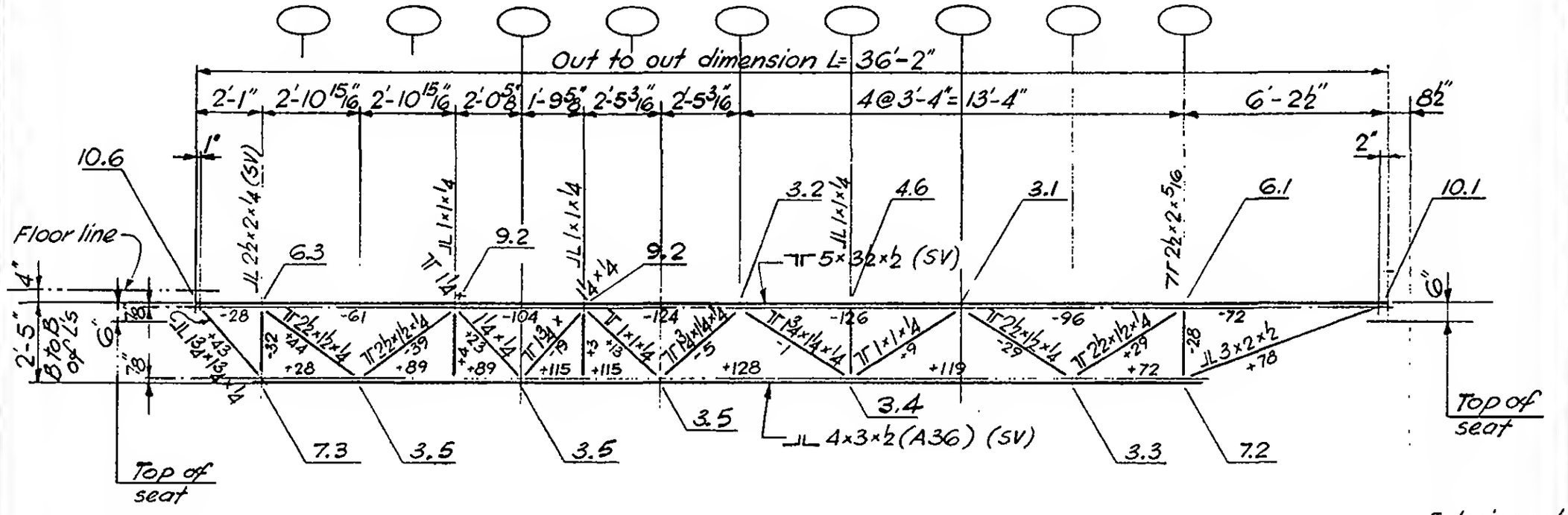
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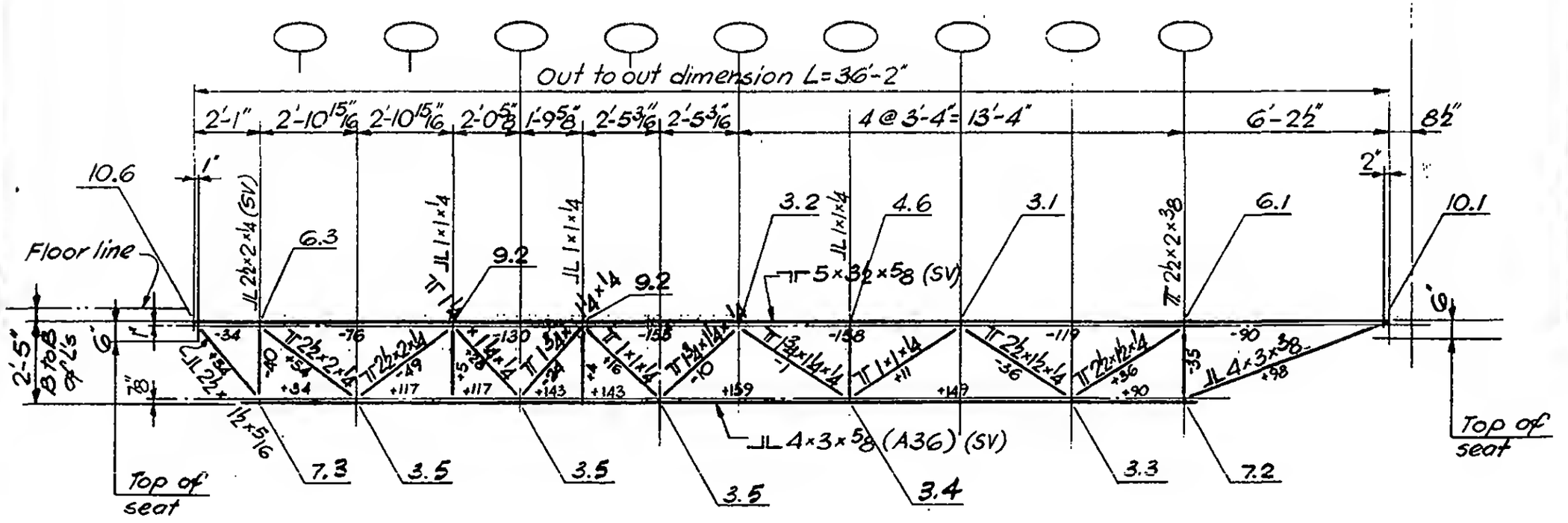
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Elevation 29T10



Elevation 29T11

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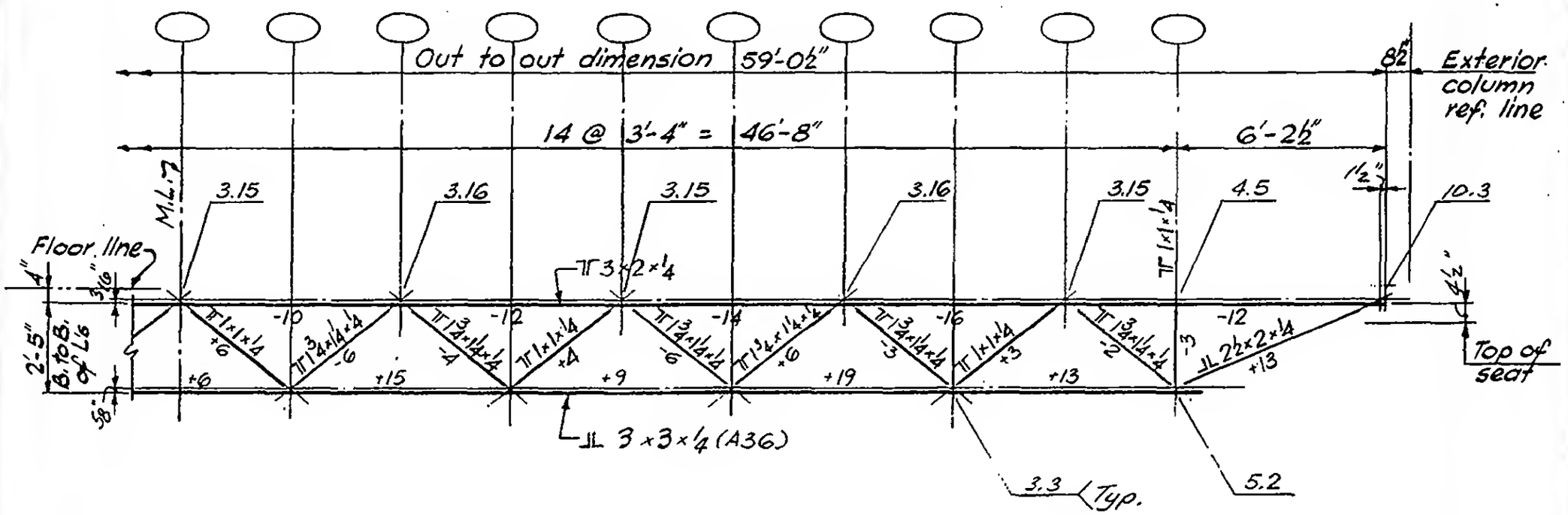
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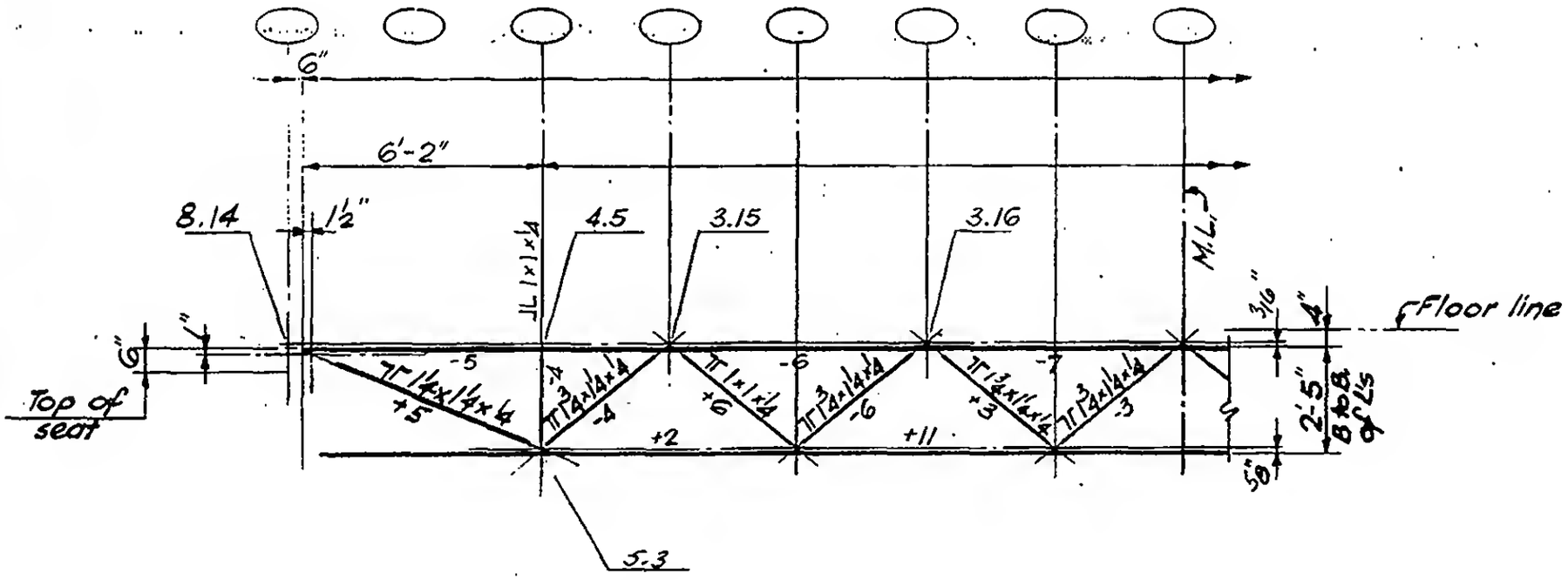
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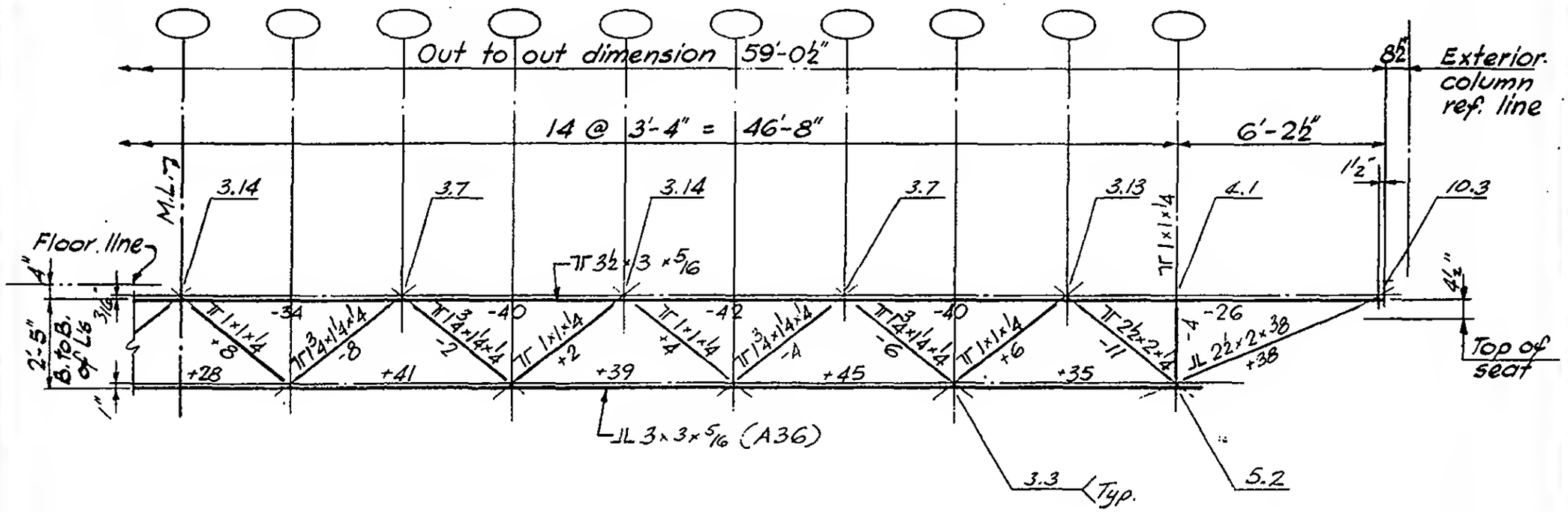
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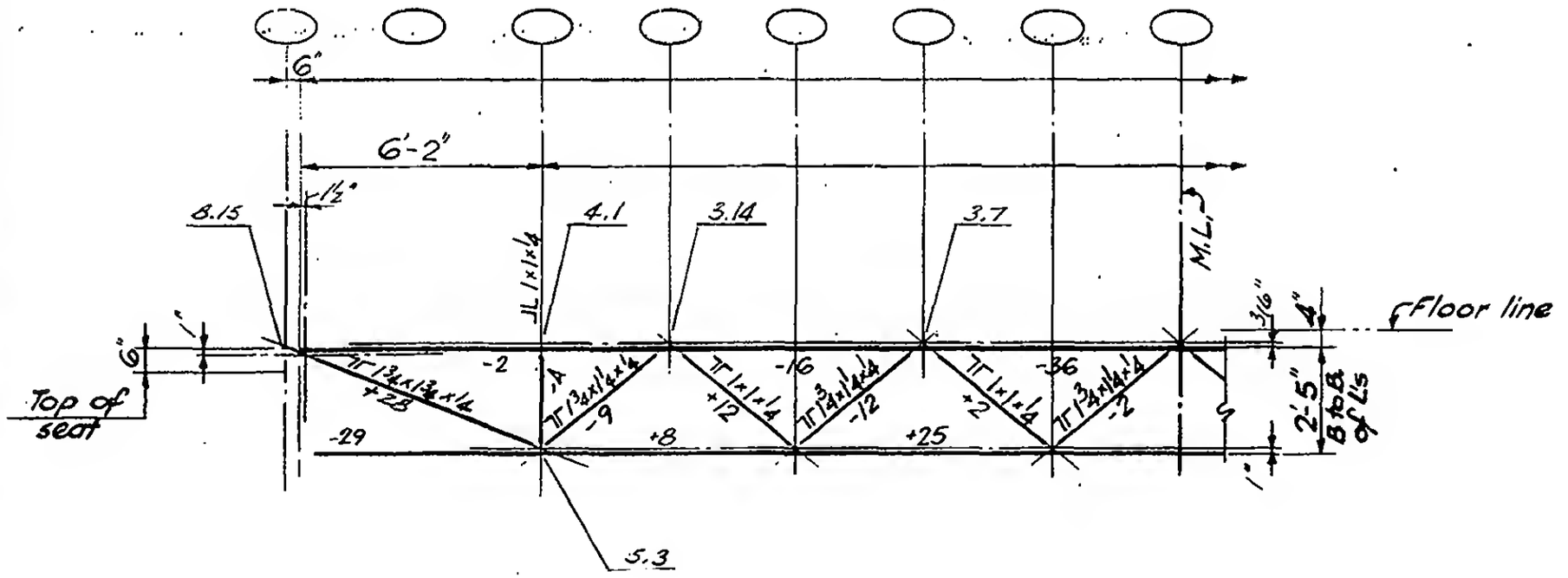
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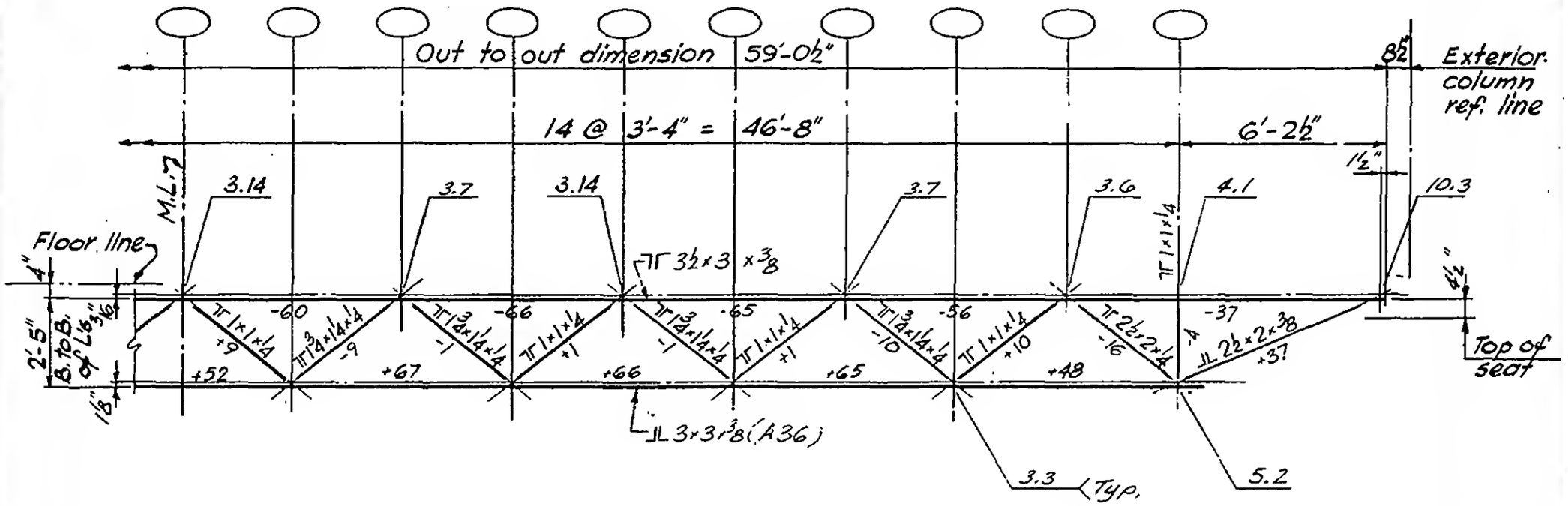
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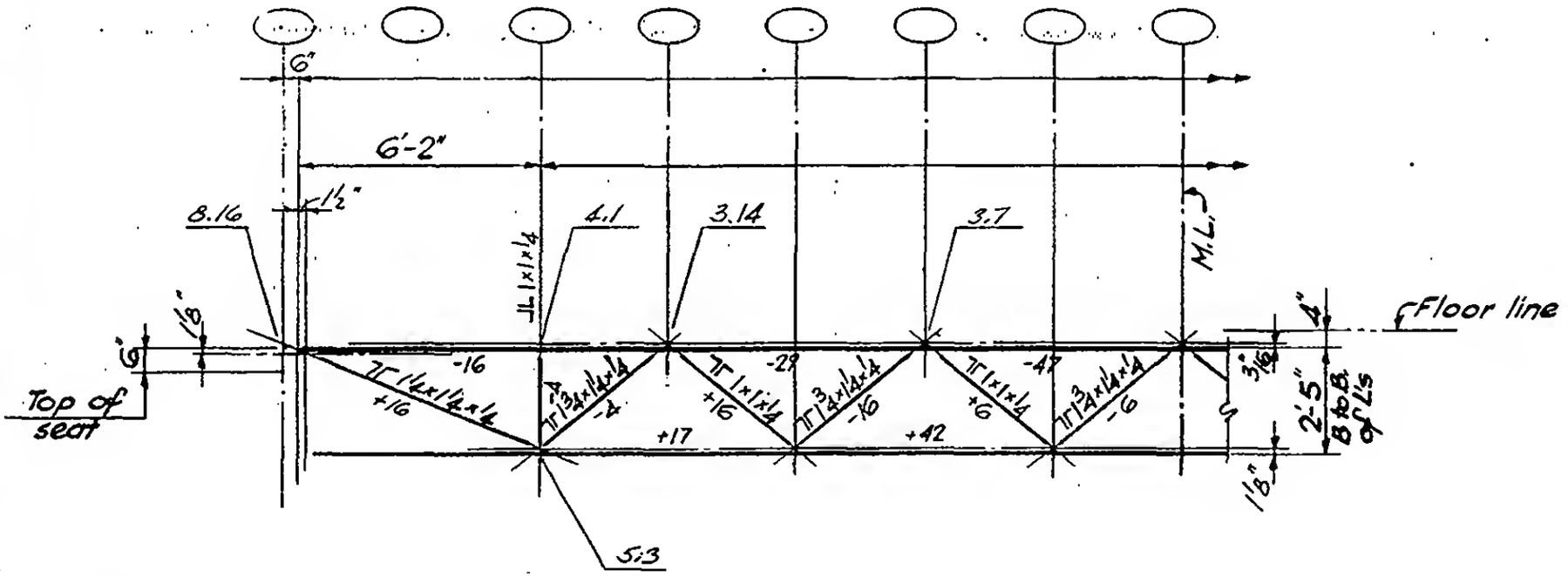
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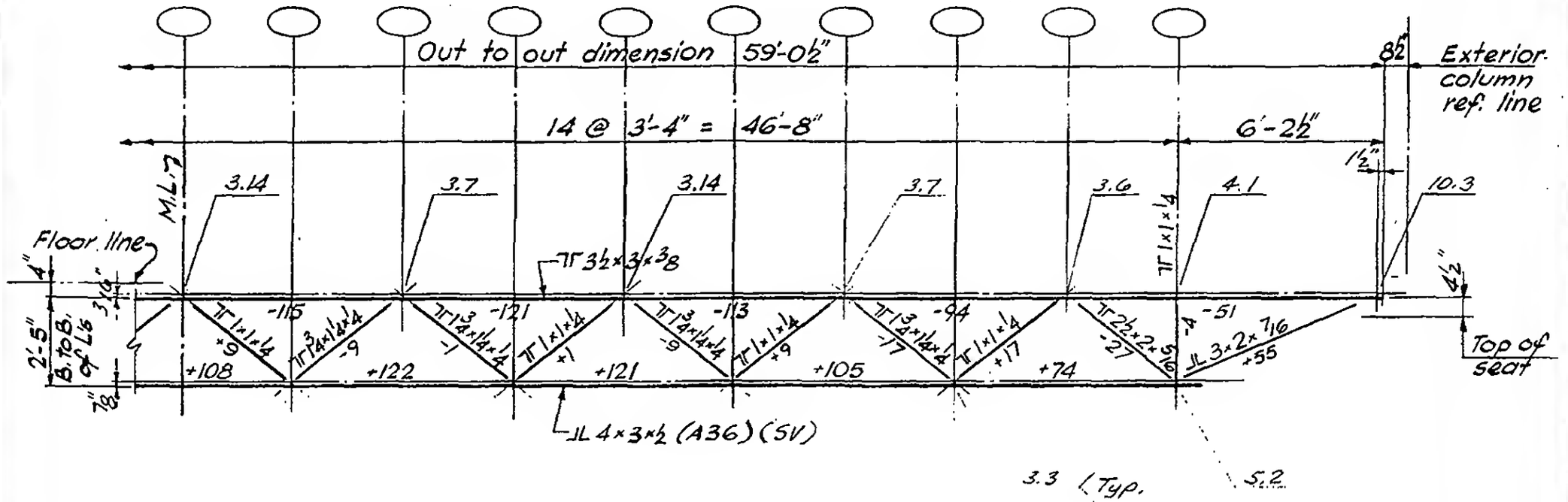
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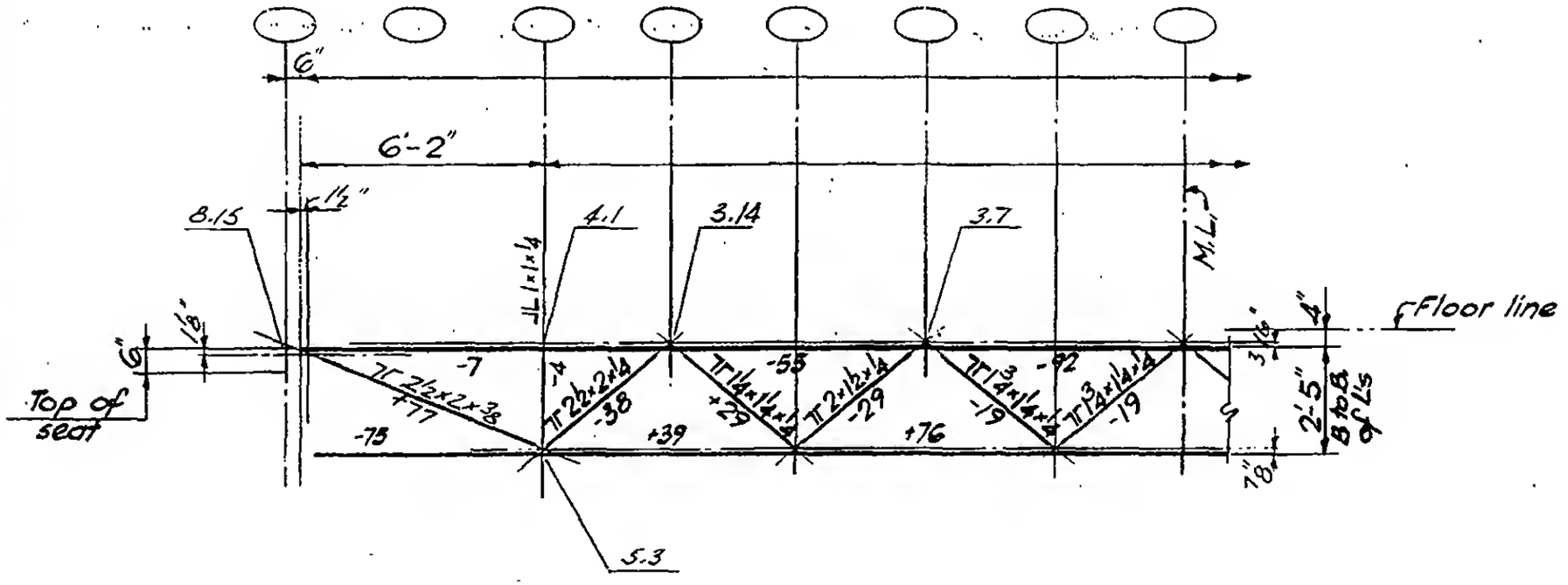
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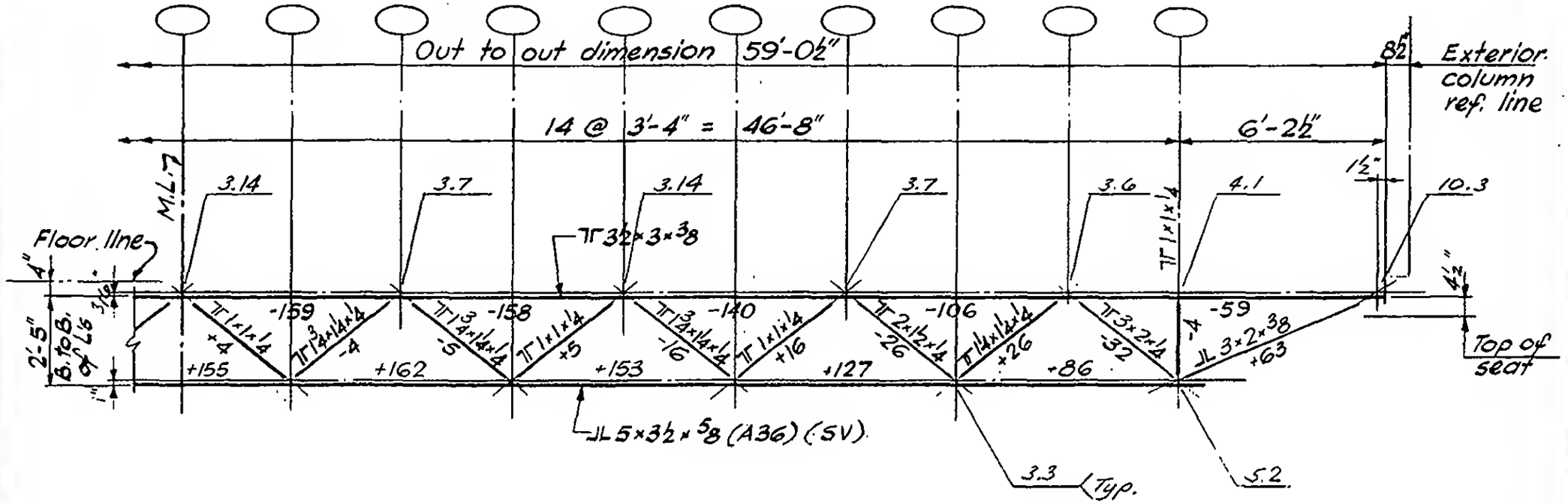
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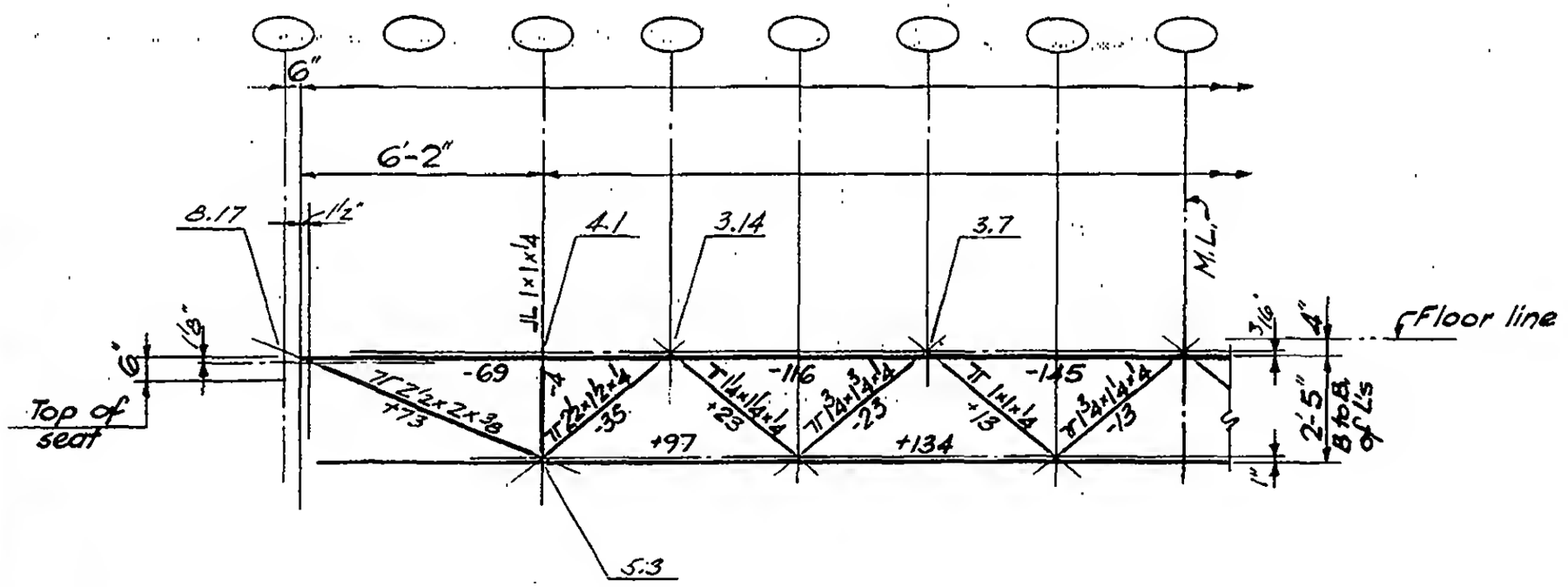
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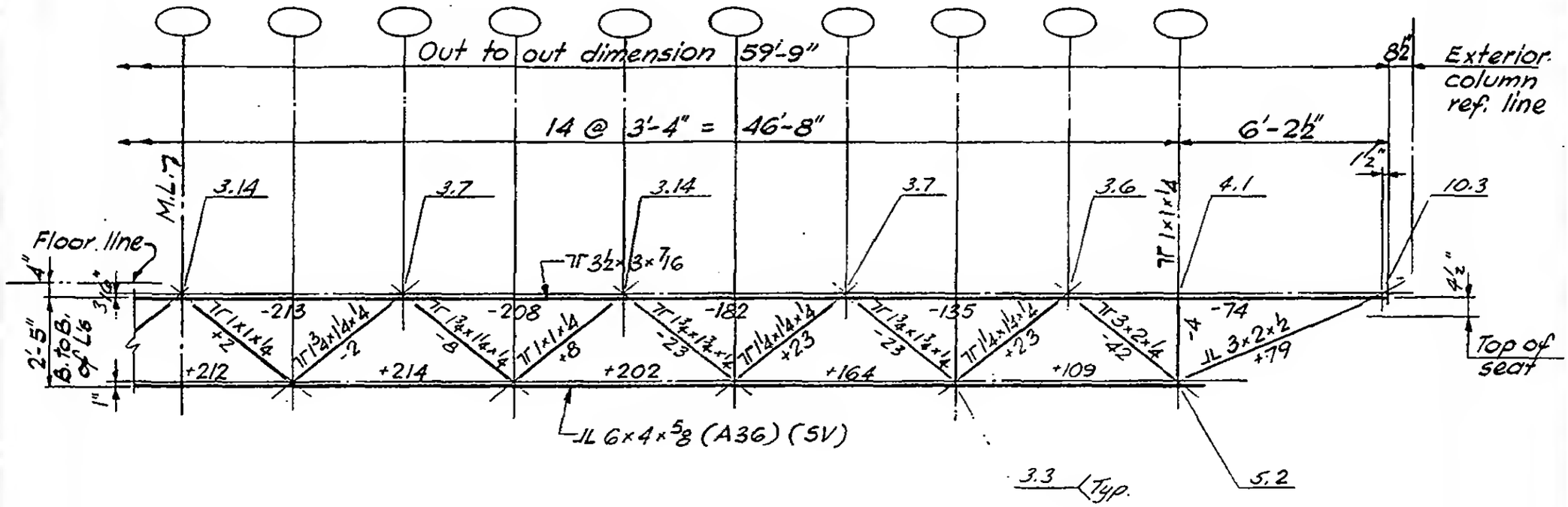
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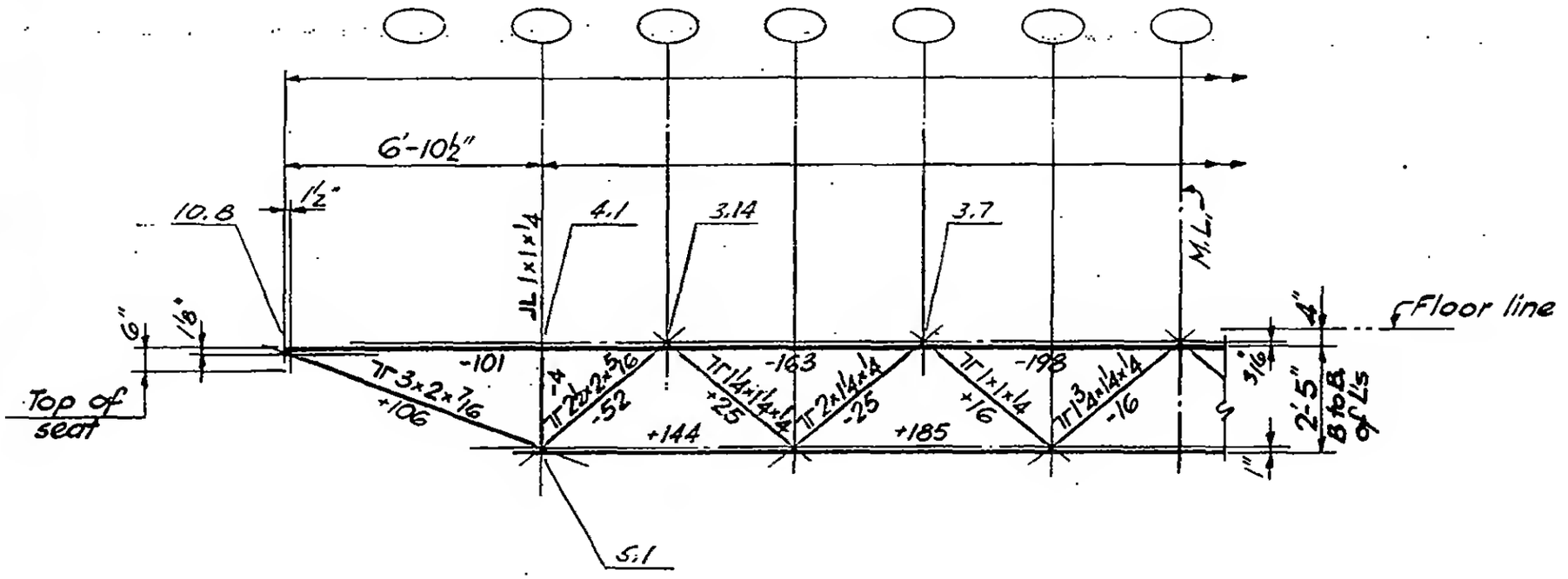
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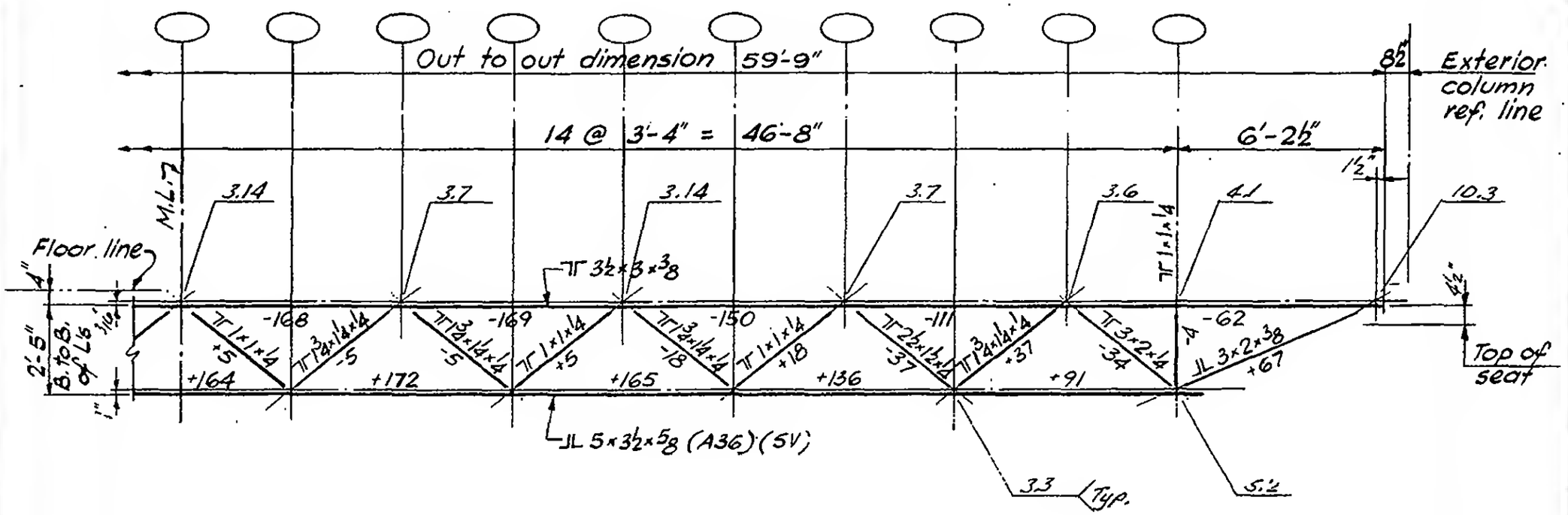
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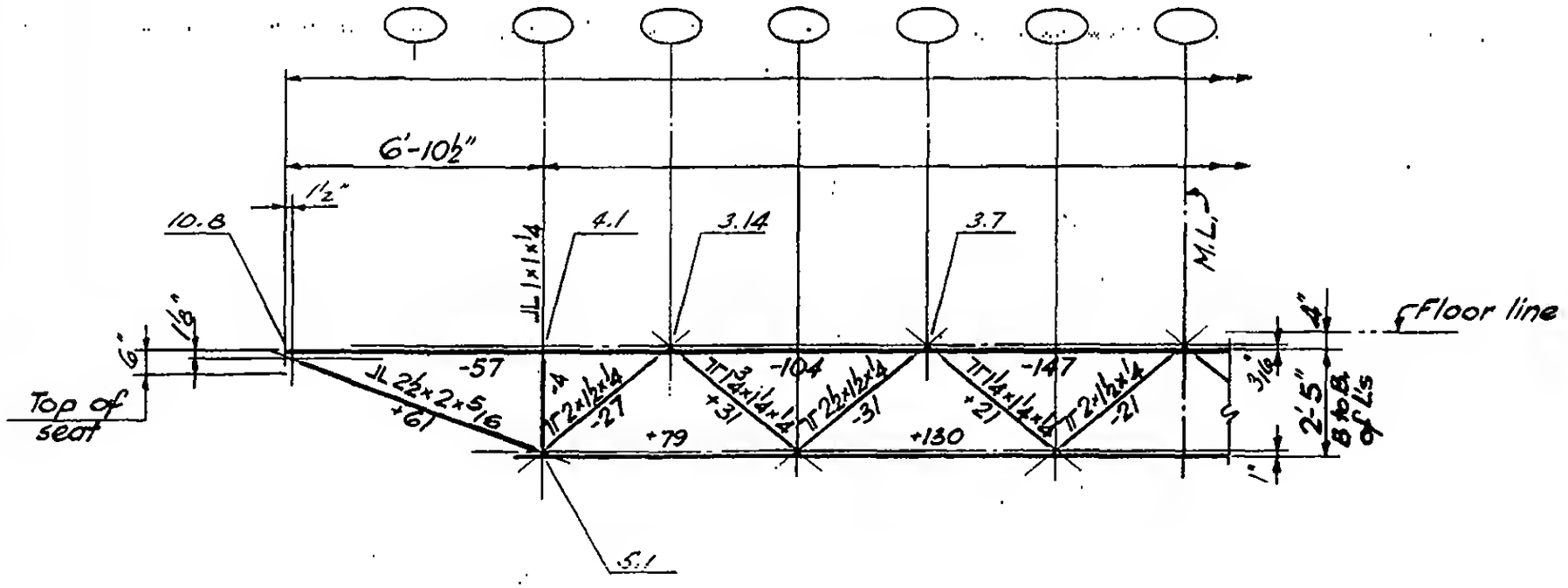
7-B7-15

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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS 29T18 | DATE: 3-19-69

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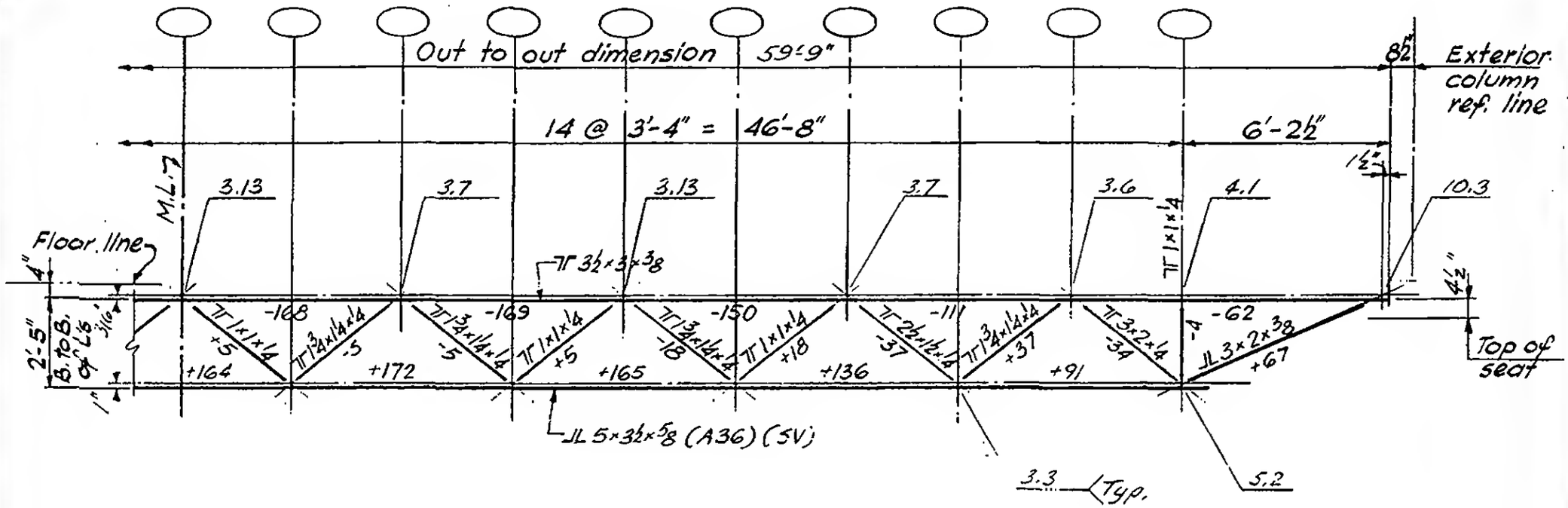
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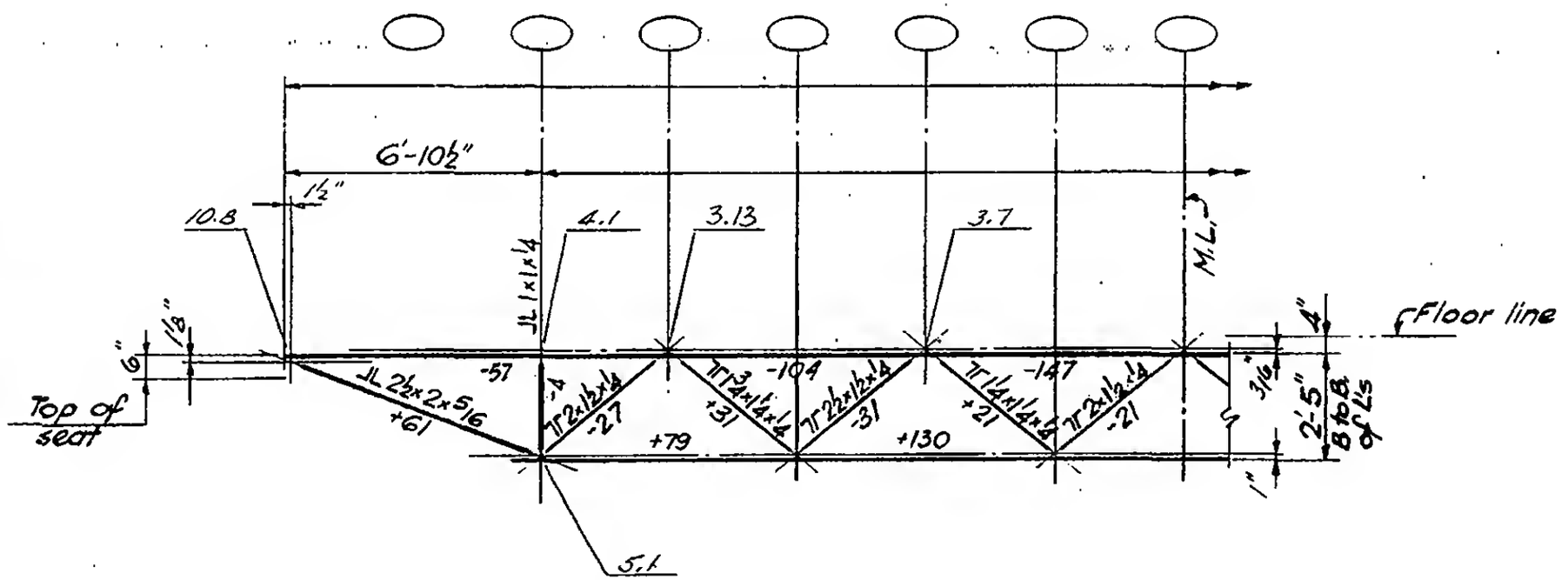
7-B7-16

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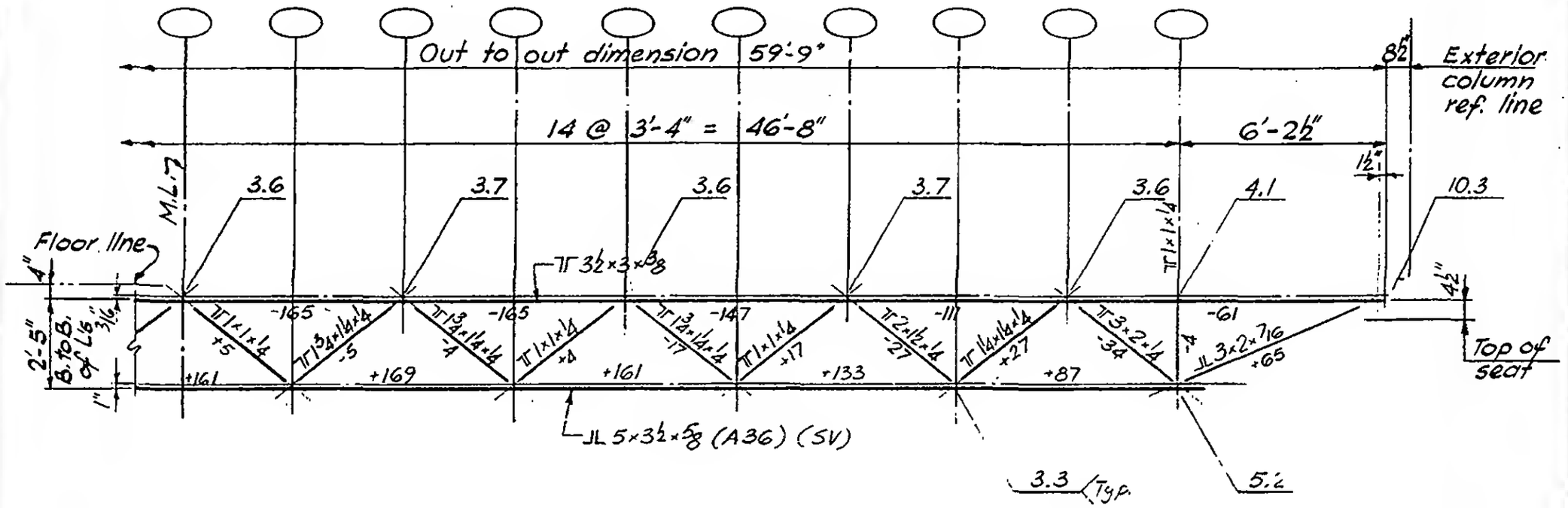
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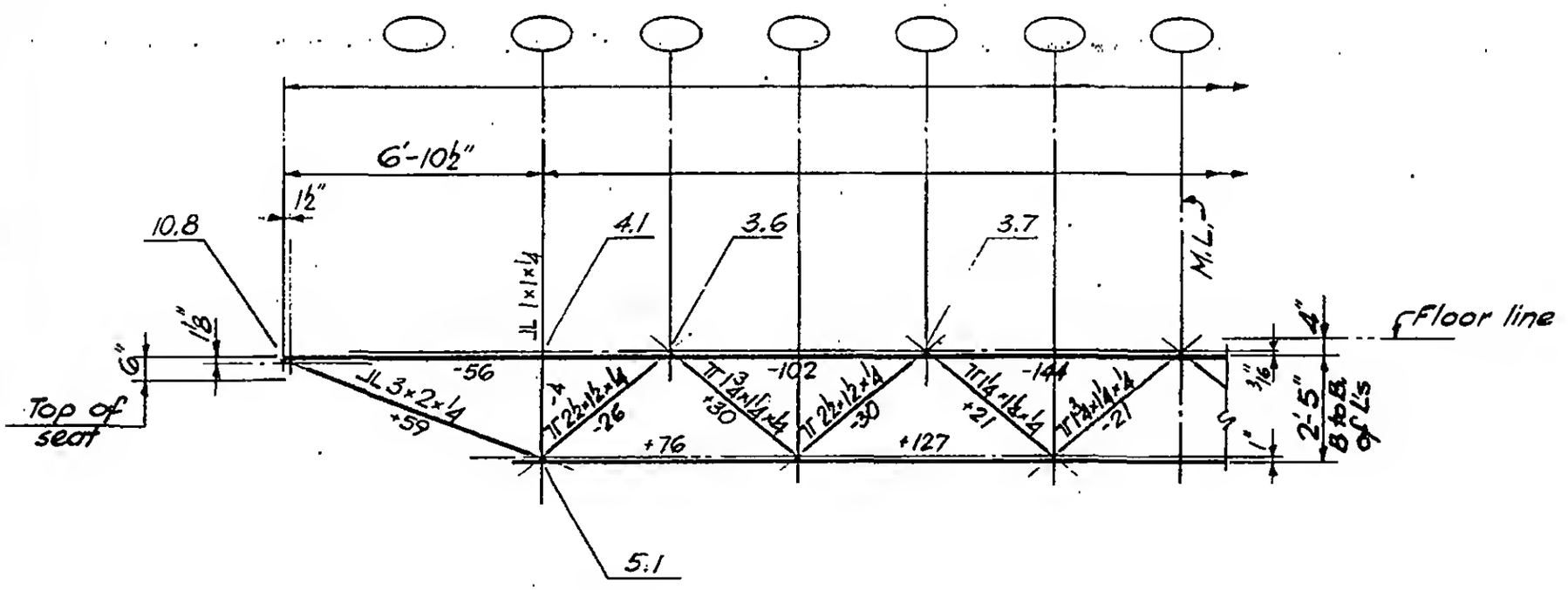
7-B7-17

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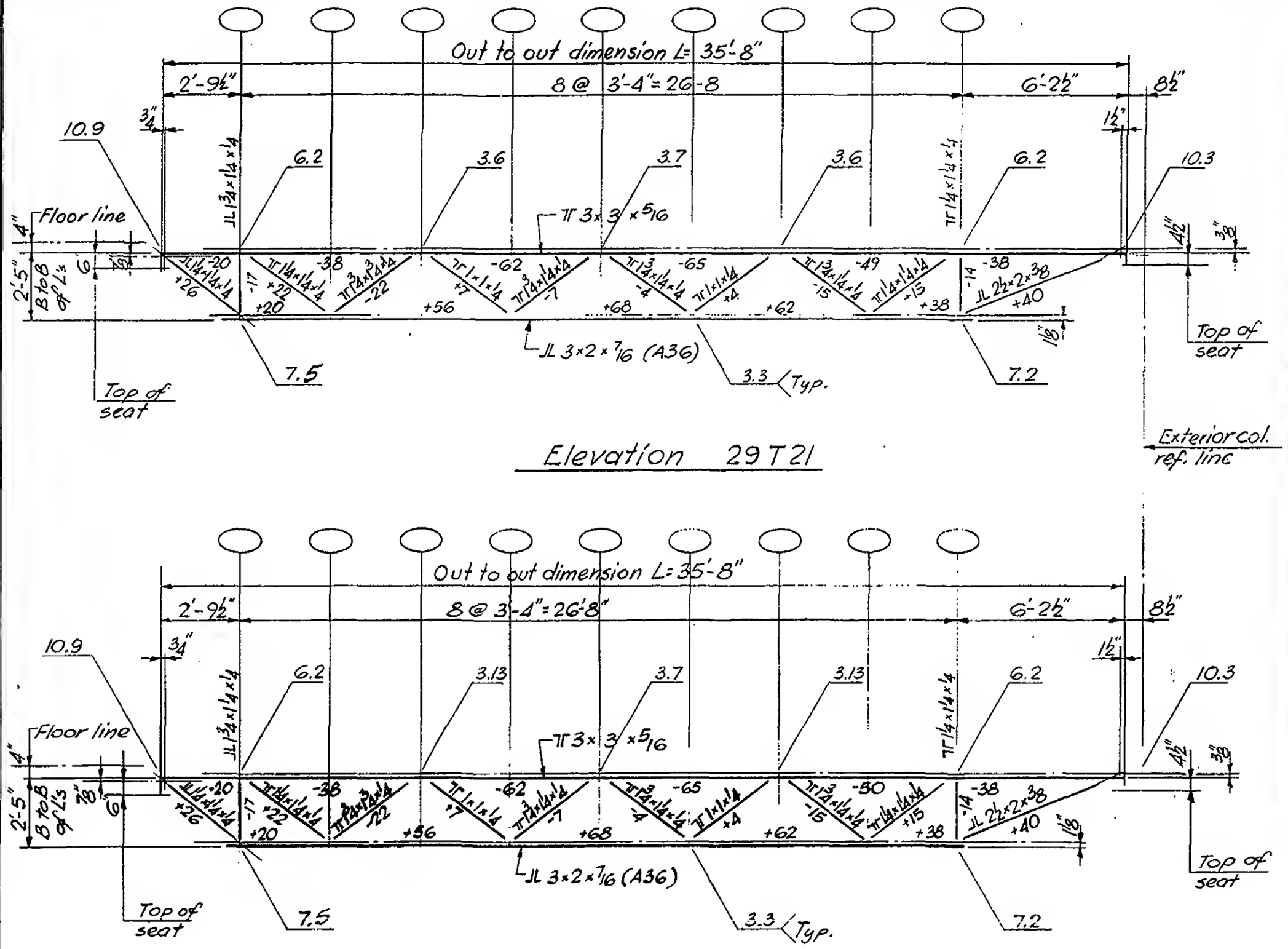
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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS 29T21 & 29T22 | DATE: 3-19-69

REVISIONS



Elevation 29T21

Elevation 29T22

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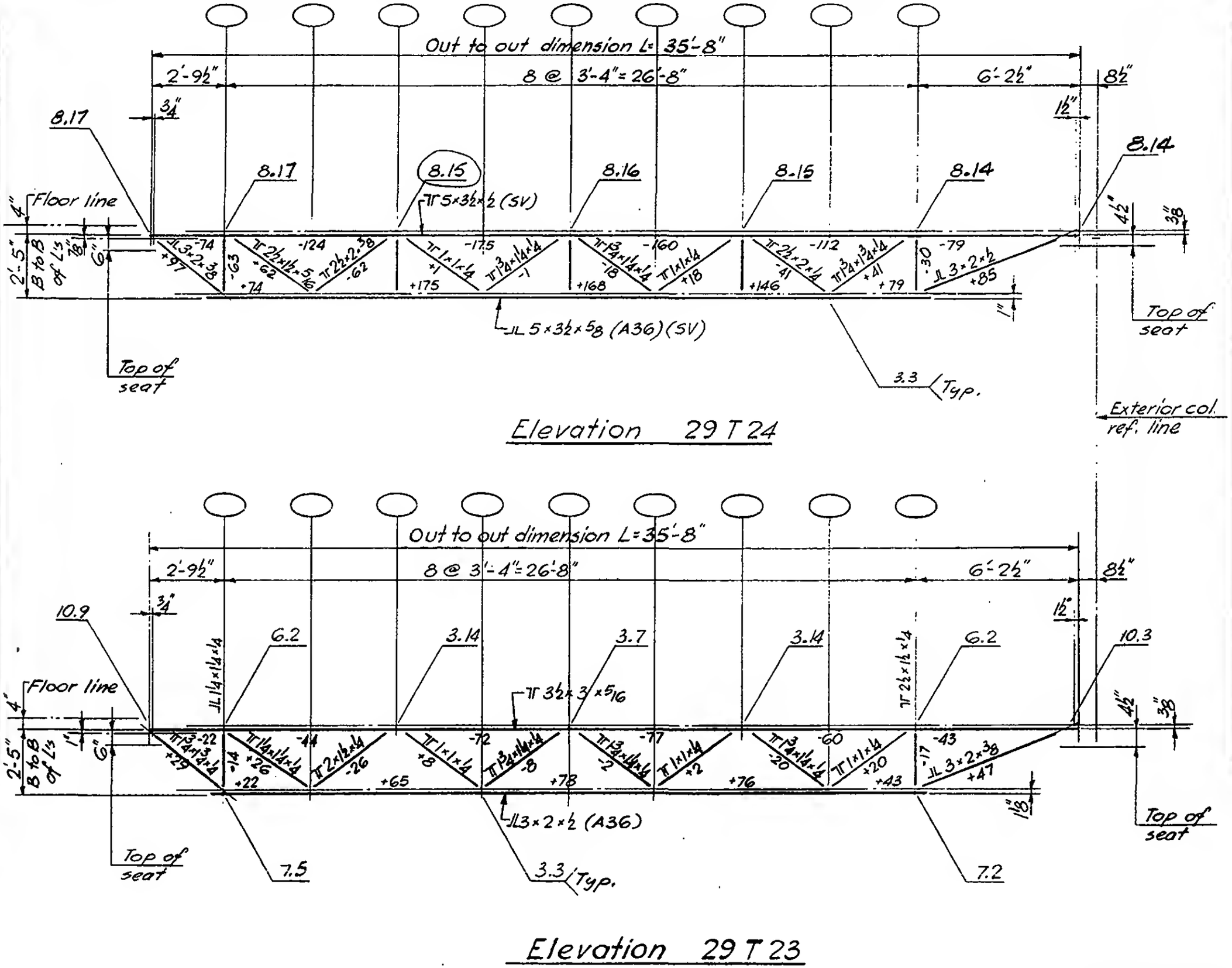
7-B7-19

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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS 29T23 & 29T24 | DATE: 3-19-69

REVISIONS

7-14-69



Elevation 29T24

Elevation 29T23

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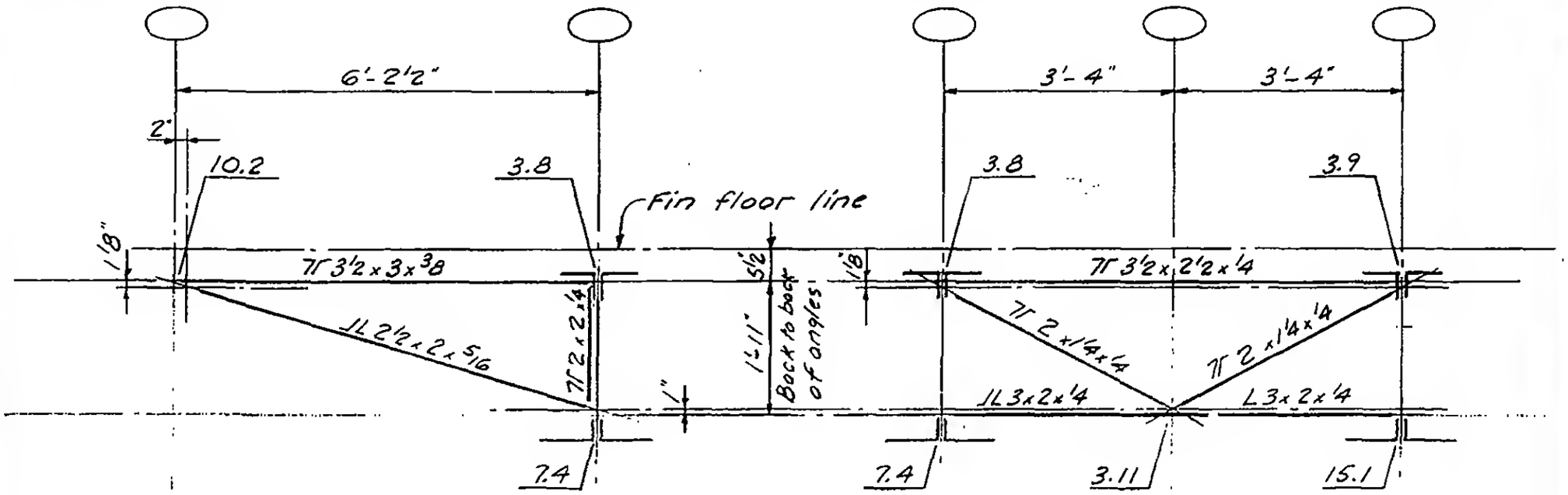
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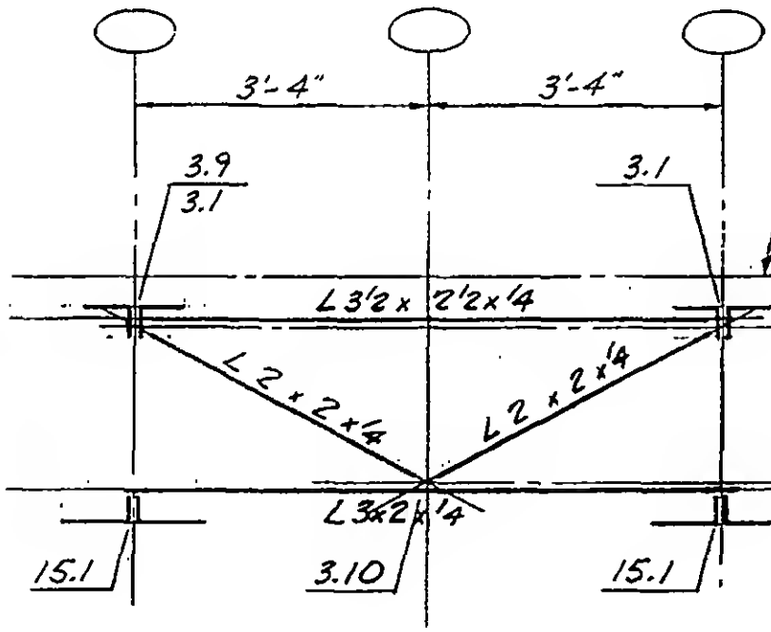
PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS B1, B2, B3 & B4 | DATE 3-19-69

REVISIONS

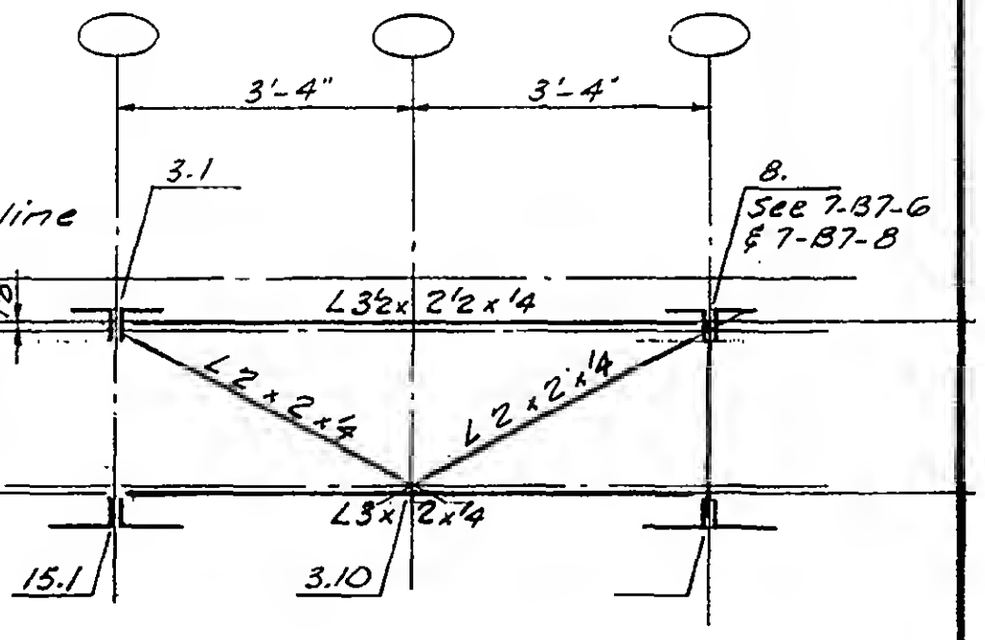


B1

B2



B3



B4

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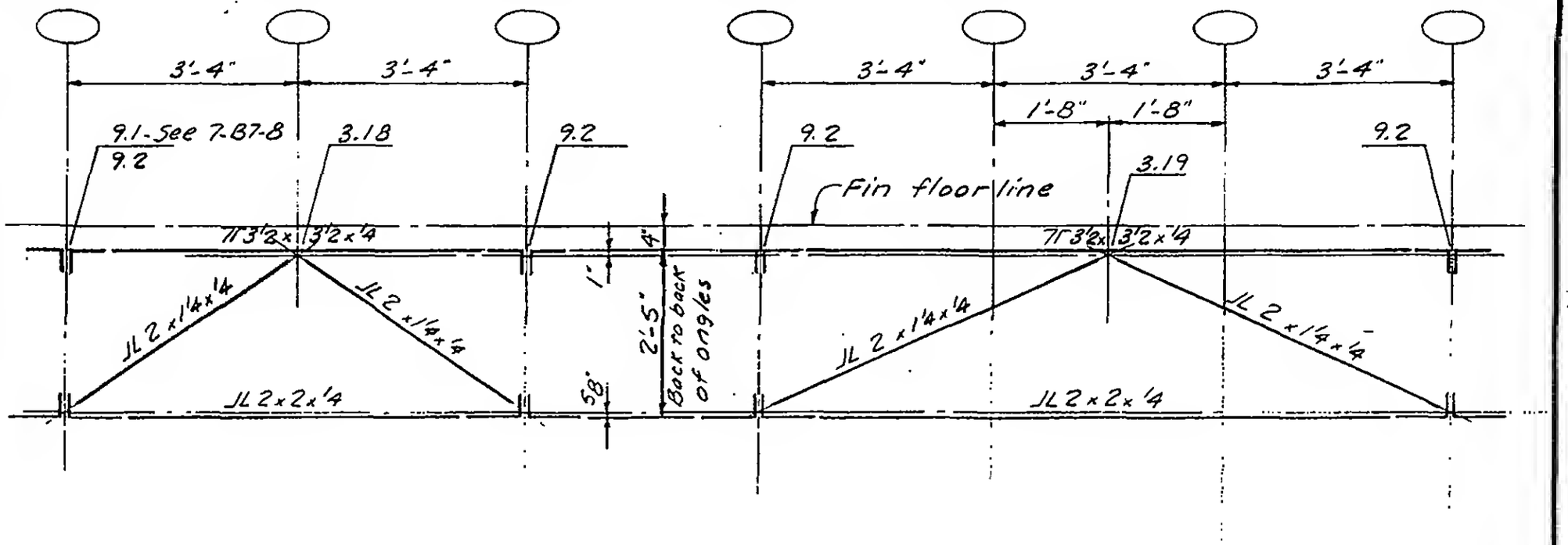
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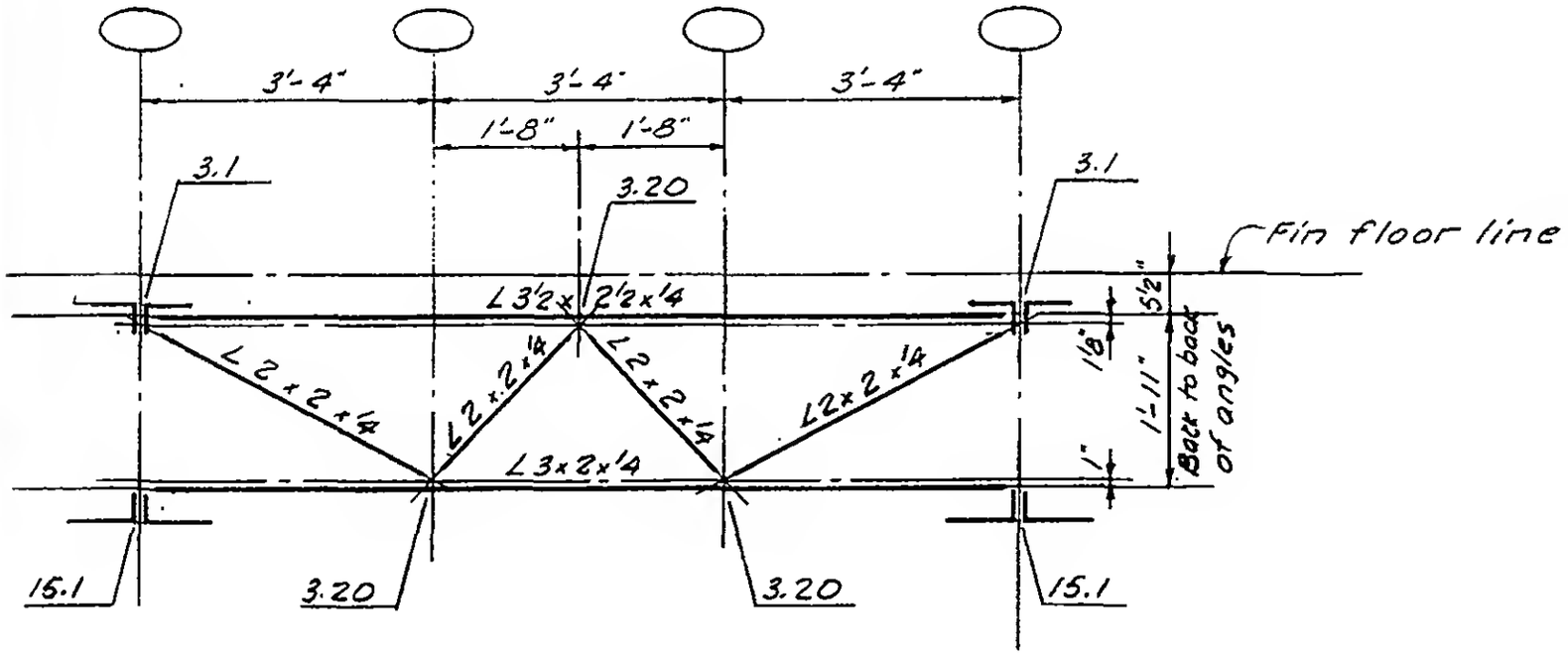
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS B5, B6 & B7 | DATE: 3-19-69

REVISIONS



B5

B6



B7

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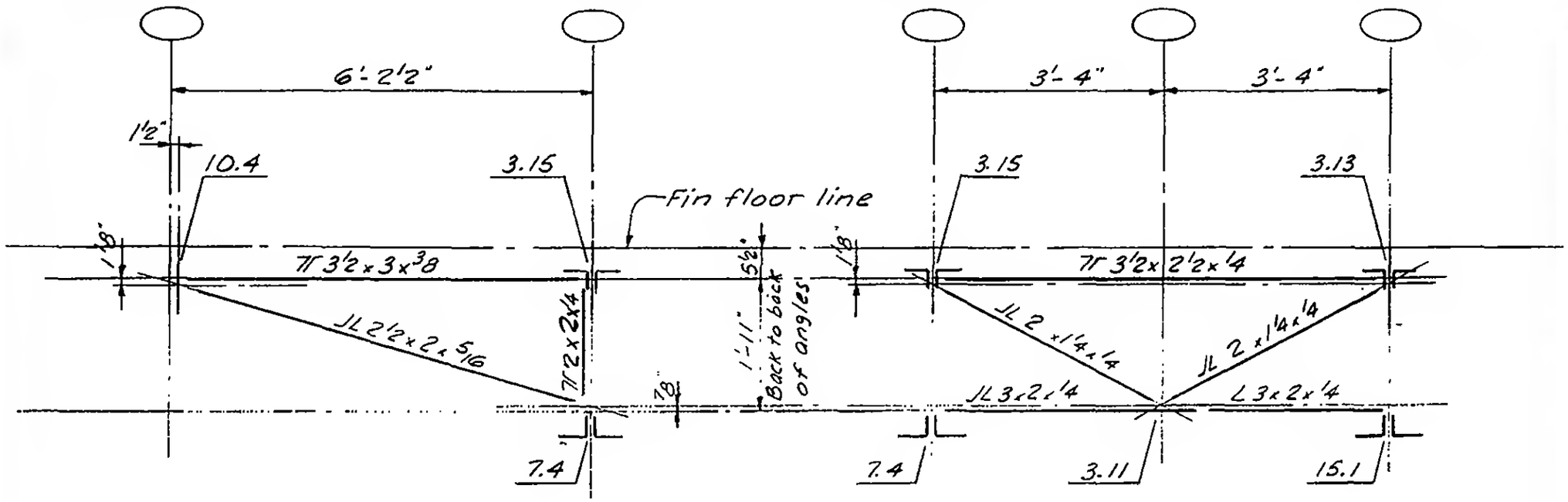
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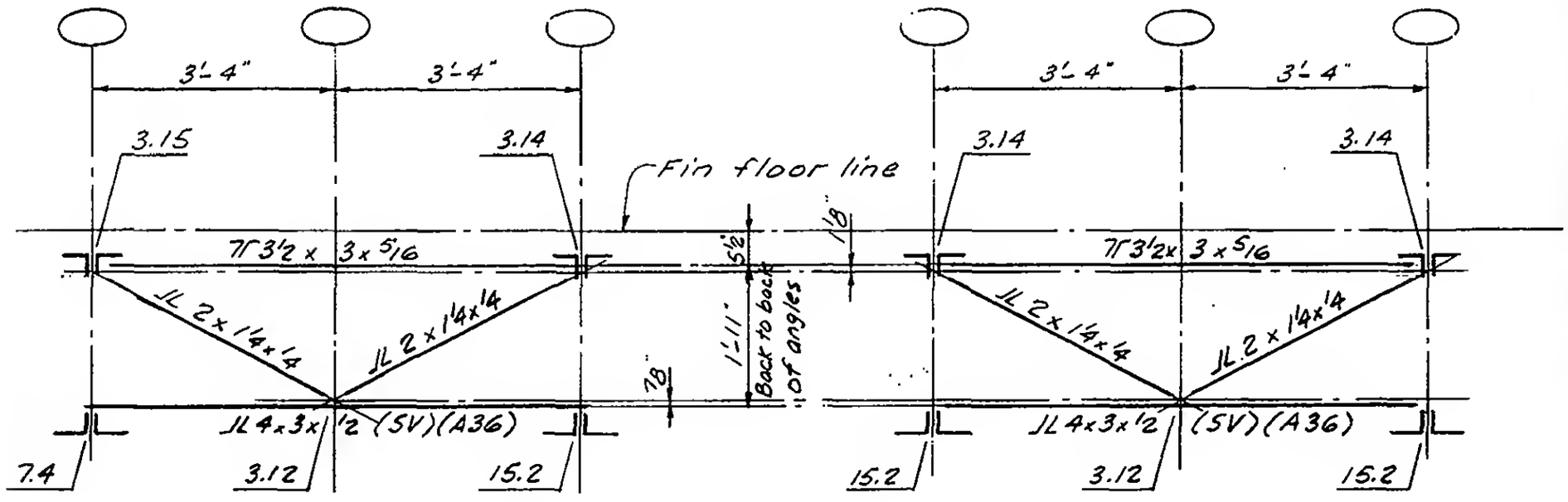
PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS B10, B11, B12 & B13 | DATE 3-19-69

REVISIONS



B10

B11



B12

B13

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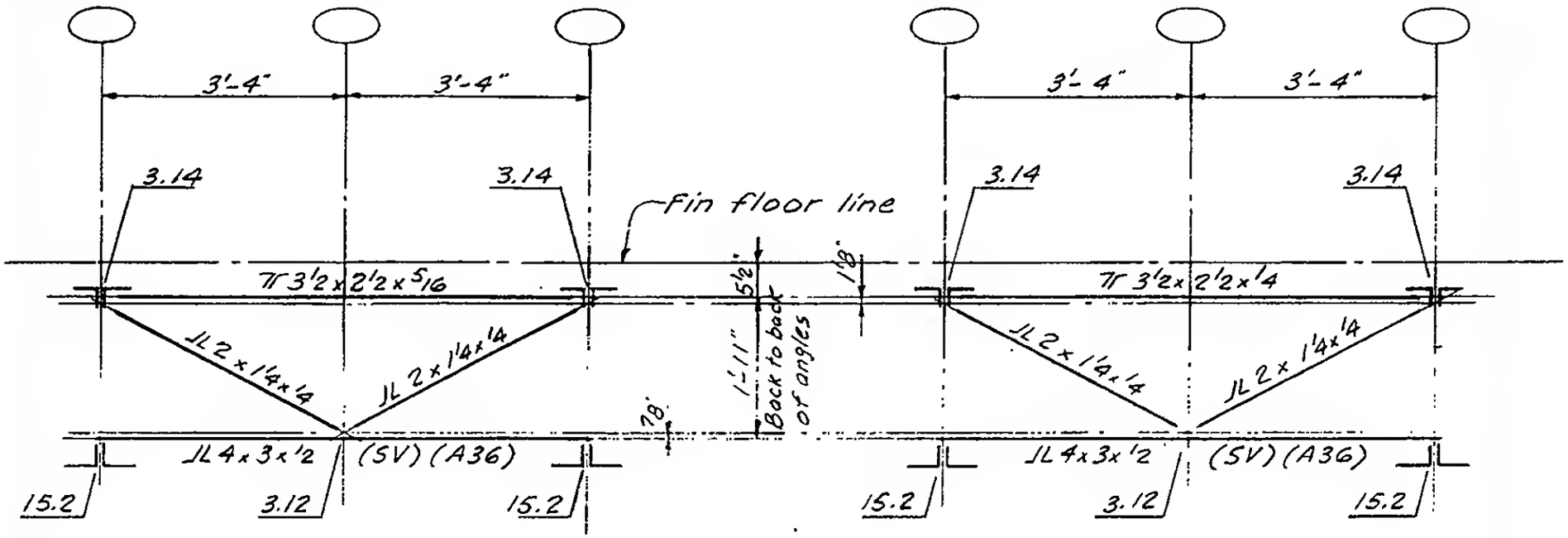
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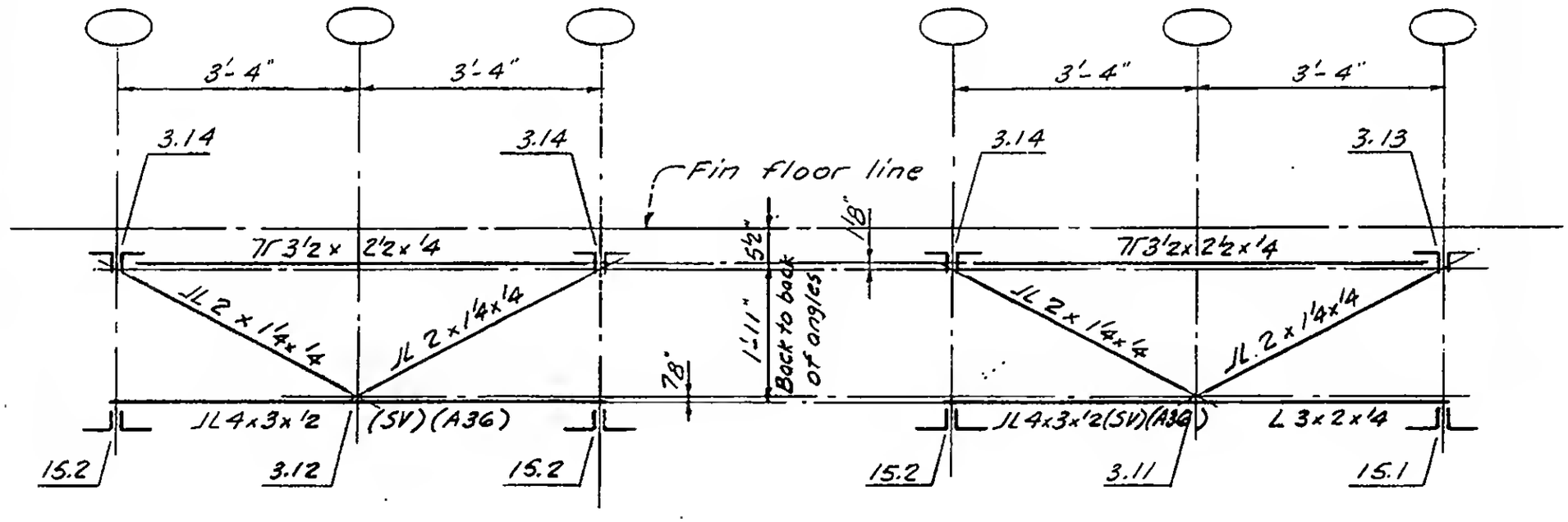
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS B14, B15, B16 & B17 | DATE: 3-19-69

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B14

B15



B16

B17

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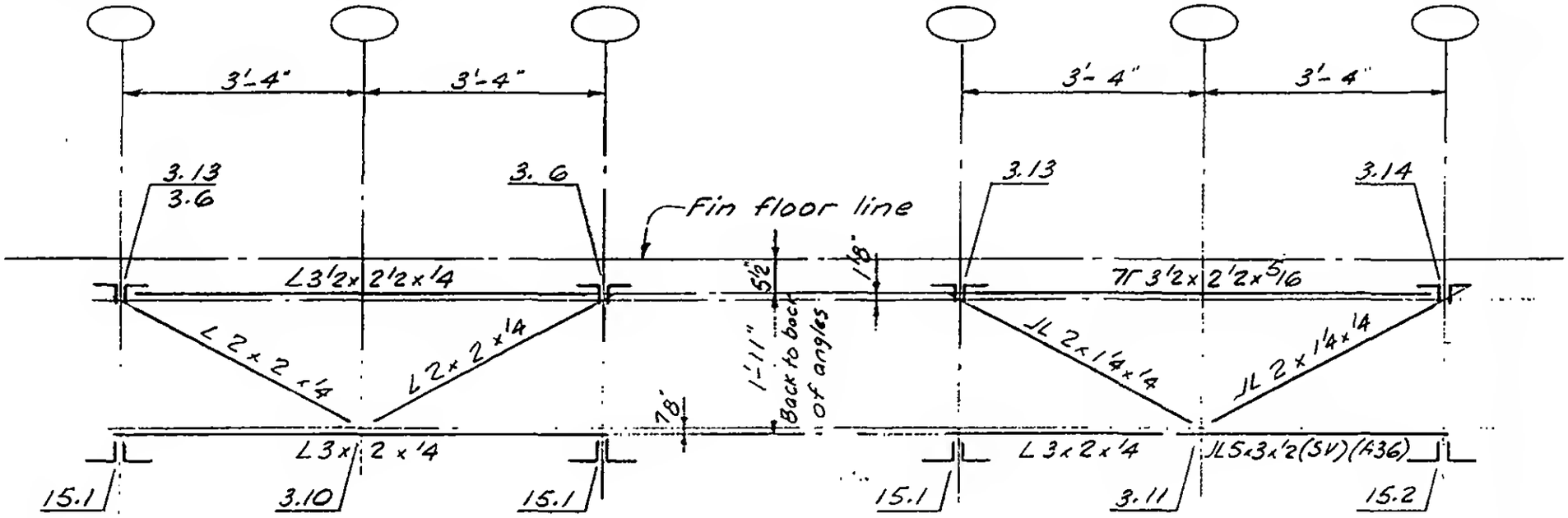
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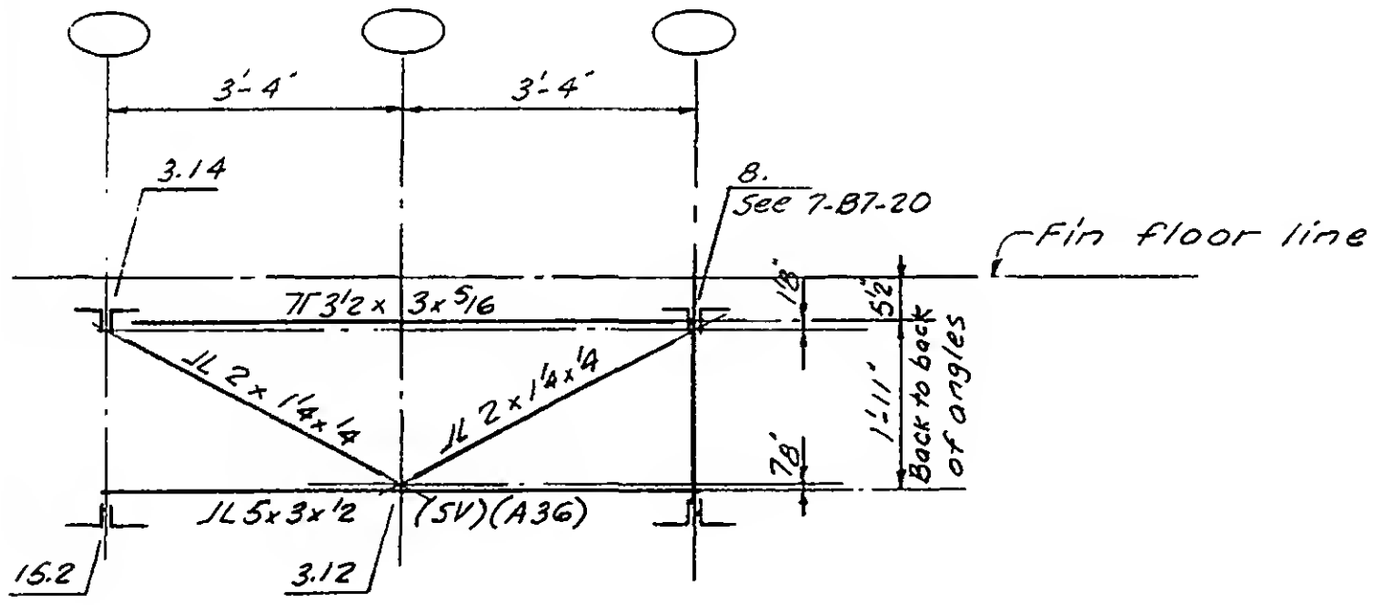
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B18

B19



B20

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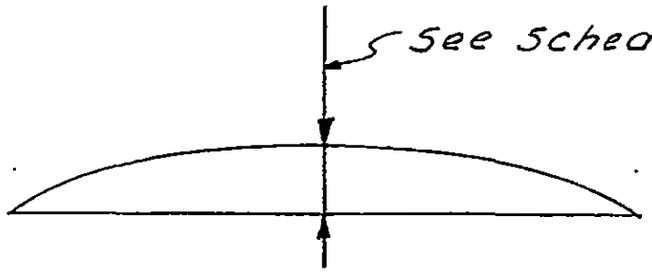
7-B7-25

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PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS CAMBER DIAGRAMS | DATE 3-19-69

REVISIONS

4-21-69
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CAMBER DIAGRAM

Camber Schedule	
Truss No.	Camber at Mid span (in)
29T1	1/8
29T2	1 15/16
29T3	2 1/16
29T4	2 1/8
29T5	1
29T6	1 1/16
29T7	13/16
29T8	5/8
29T9	1 1/16
29T10	13/16
29T11	7/8
29T12	1/2
29T13	13/16
29T14	1
29T15	1 1/2
29T16	1 11/16
29T17	2 1/16
29T18	2
29T19	2 1/8
29T20	2 1/16
29T21	1/2
29T22	1/2
29T23	5/8
29T24	11/16

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PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAILS - INDEX | DATE 3-19-69

REVISIONS

1-1-69

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7-B8-5.2	DETAIL 5.2	7-B8-12.3	DETAIL 12.6 & 12.7
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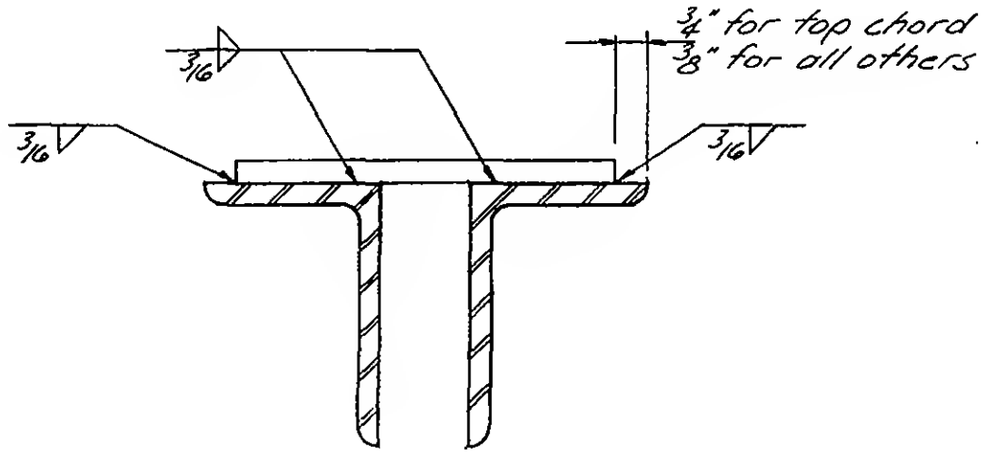
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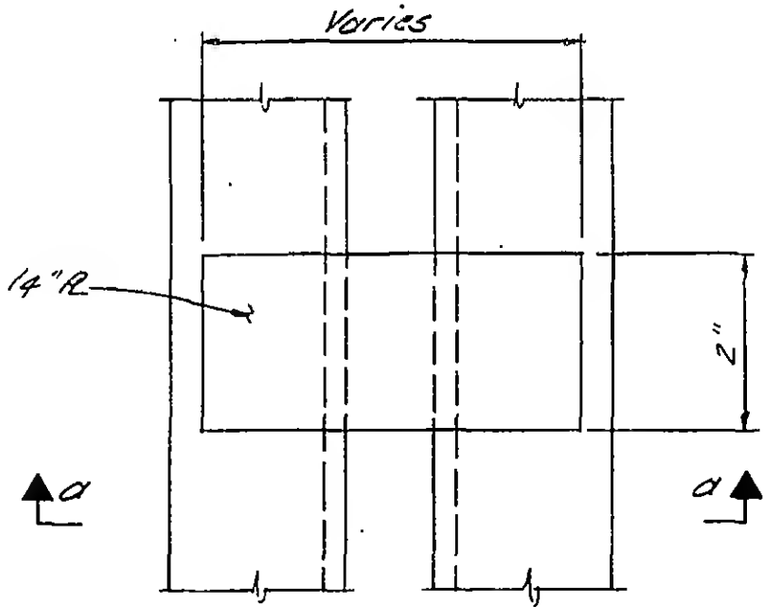
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL - TYPICAL LACING | DATE: 3-19-69

REVISIONS



Section a-a

Note:
Lacing detail applies to all double angle compression members
Lacing bar required at mid-point of each panel, except for the following member sizes where lacing bar is required at ⅓ point, each panel.
- 7L 2x1¼
- 7L 2½x1½
- 7L 3x2



Plan

TYPICAL LACING DETAIL FOR JL COMPRESSION MEMBERS

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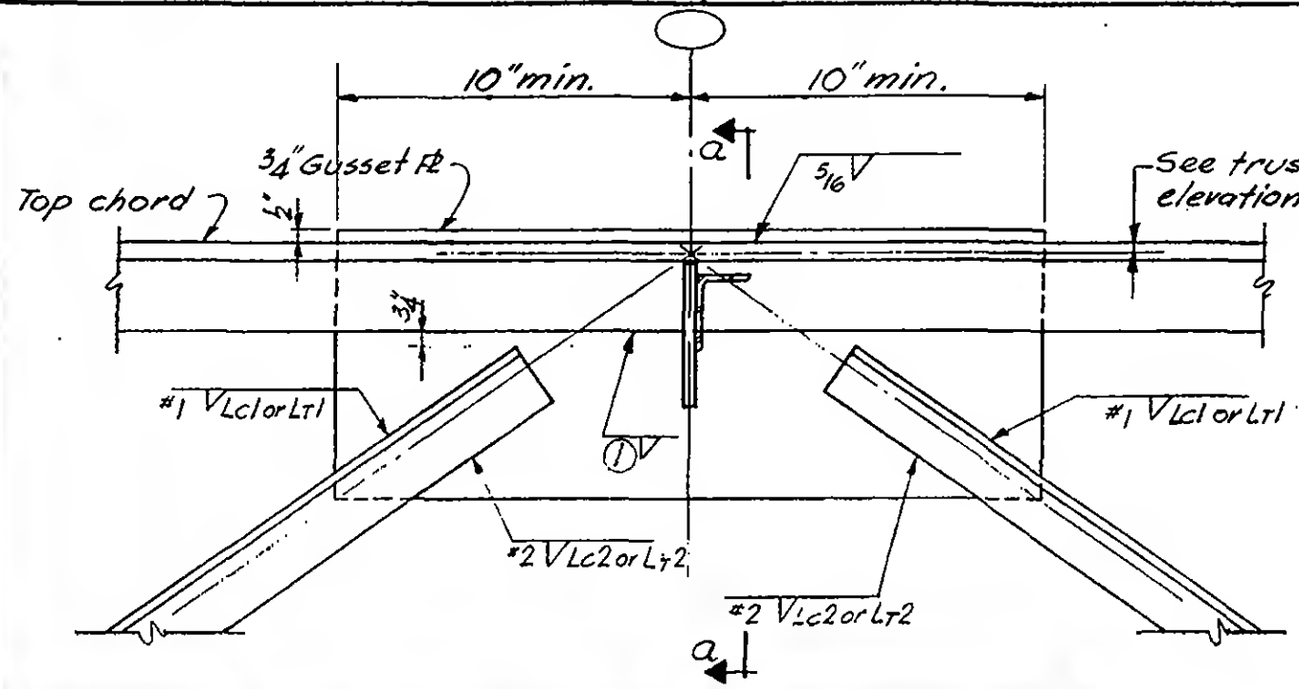
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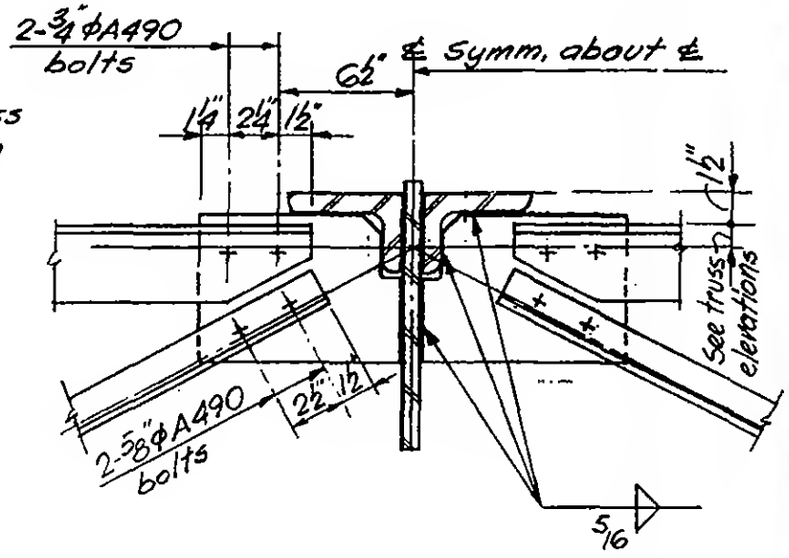
7-88-2

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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.1 | DATE: 3-19-69

REVISIONS





Section a-a

Diagonal member size	Compression				Tension			
	Weld #1	Lc1	Weld #2	Lc2	Weld #1	Lt1	Weld #2	Lt2
1 × 1 × 1/4	—	—	—	—	1/4	6	3/16	4
1 1/4 × 1 1/4 × 1/4	—	—	—	—	1/4	6	3/16	4
1 3/4 × 1 1/4 × 1/4	1/4	6	3/16	4	1/4	6	3/16	4
1 3/4 × 1 3/4 × 1/4	1/4	6	3/16	4	5/16	6	3/16	4
2 × 1 1/2 × 1/4	1/4	6	3/16	4	—	—	—	—
2 1/2 × 1 1/2 × 1/4	1/4	6	3/16	4	1/4	7	3/16	5
2 1/2 × 2 × 1/4	1/4	6	3/16	4	5/16	7	3/16	5
2 1/2 × 1 1/2 × 5/16	1/4	6	1/4	4	5/16	7	1/4	5
2 1/2 × 2 × 5/16	5/16	6	1/4	4	3/8	7	1/4	5
2 1/2 × 2 × 3/8	5/16	7	1/4	5	5/16	9	1/4	6
3 × 2 × 1/4	5/16	7	3/16	5	—	—	—	—
3 × 2 × 3/8	3/8	7	5/16	5	3/8	9	5/16	6
3 × 2 × 7/16	5/16	9	5/16	6	—	—	—	—
3 × 2 × 1/2	3/8	9	5/16	6	7/16	9	3/8	6
3 × 2 1/2 × 1/2	7/16	9	5/16	6	—	—	—	—

Note ① 1/4" for Tr ≤ to 3/4" thick
5/16" for Tr > than 3/4" thick

See 7-B7 for truss elevations.

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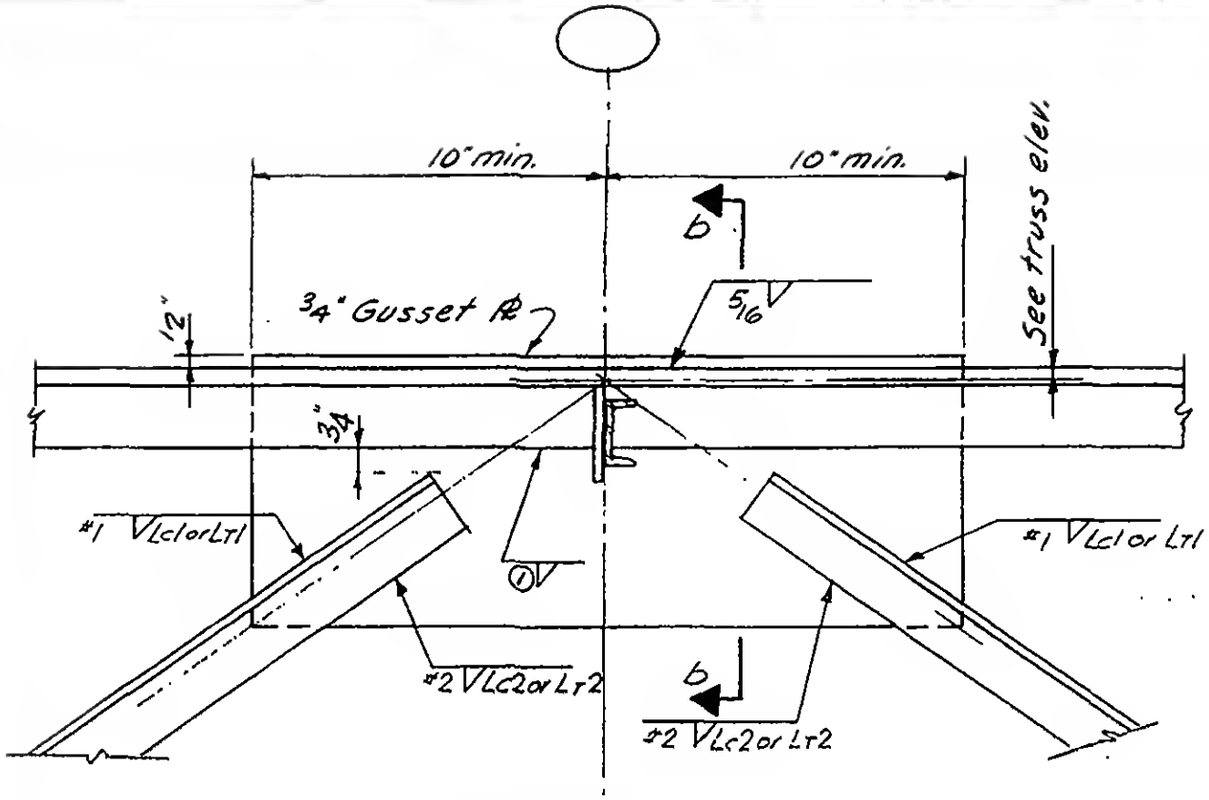
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7-B8-3.1

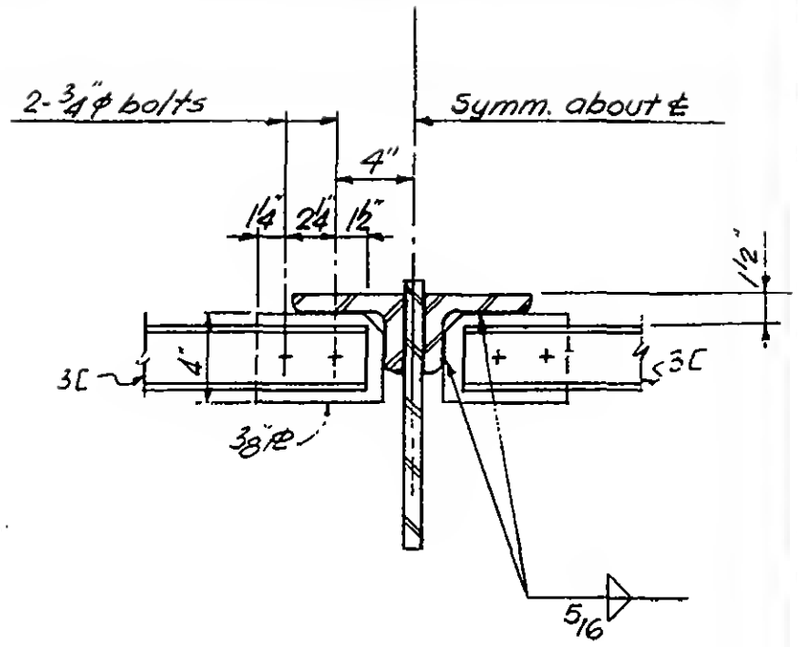
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PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAIL 3.2, 3.3 | DATE 3-19-69

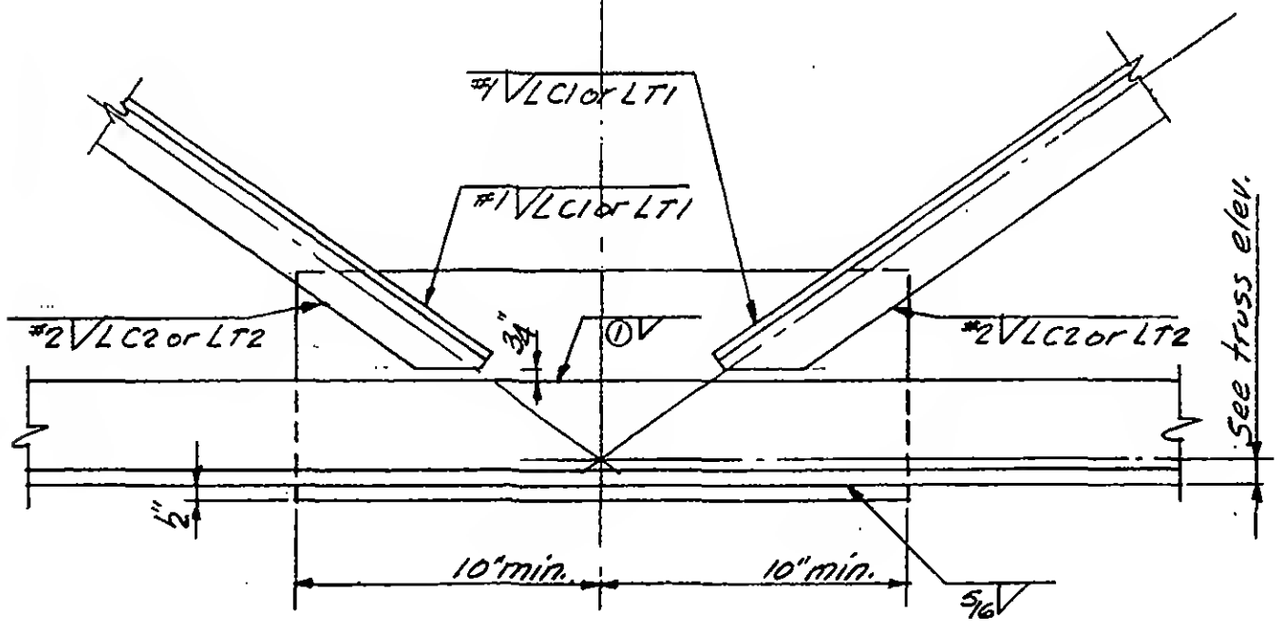
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DETAIL 3.2



Section b-b



DETAIL 3.3

See table det. 3.1 for welds.
See 7-B7 for truss elevations.

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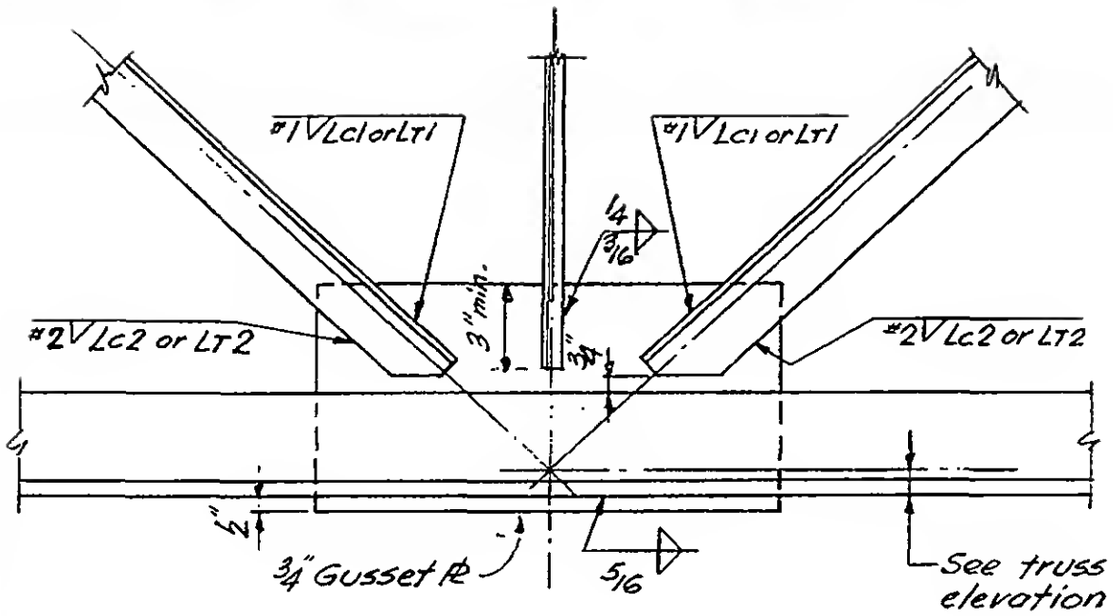
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DRAWN A.L. FRANQUI
REVIEWED W. Brewer

7-B8-3.2

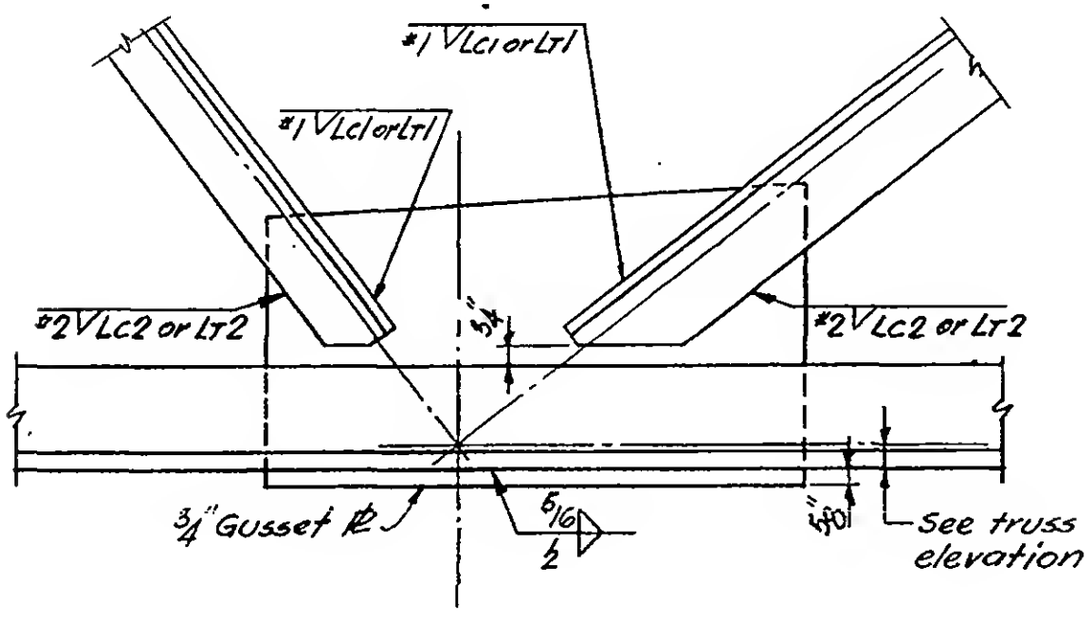
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.4 & 3.5 | DATE: 3-19-69

REVISIONS



DETAIL 3.4



DETAIL 3.5

See 7-B7 for truss elev.
See table detail 3.1 for welds.

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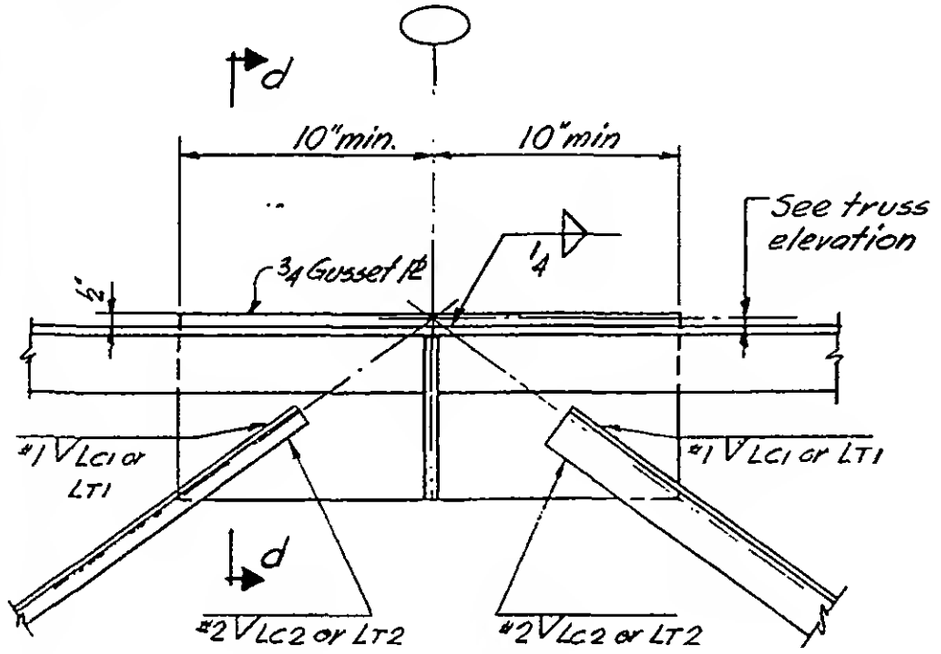
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DRAWN J. Gricius
REVIEWED W. Brewer

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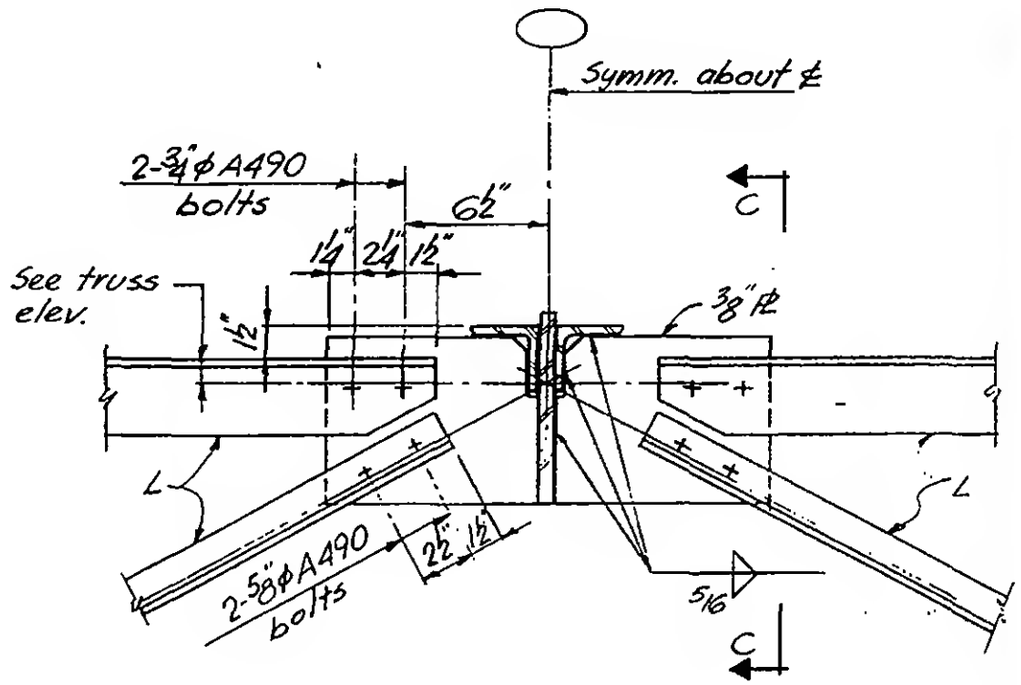
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.6 | DATE: 3-19-69

REVISIONS

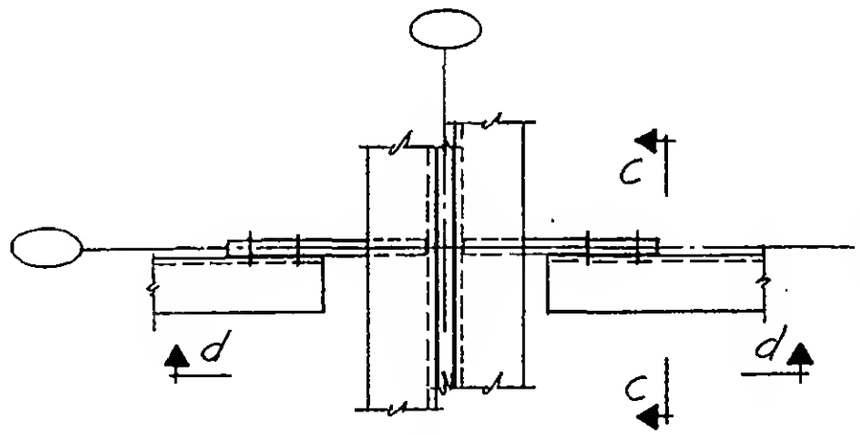


Section c-c



Section d-d

See table det. 3.1 for welds
See 7-B7 for truss elevations



Plan

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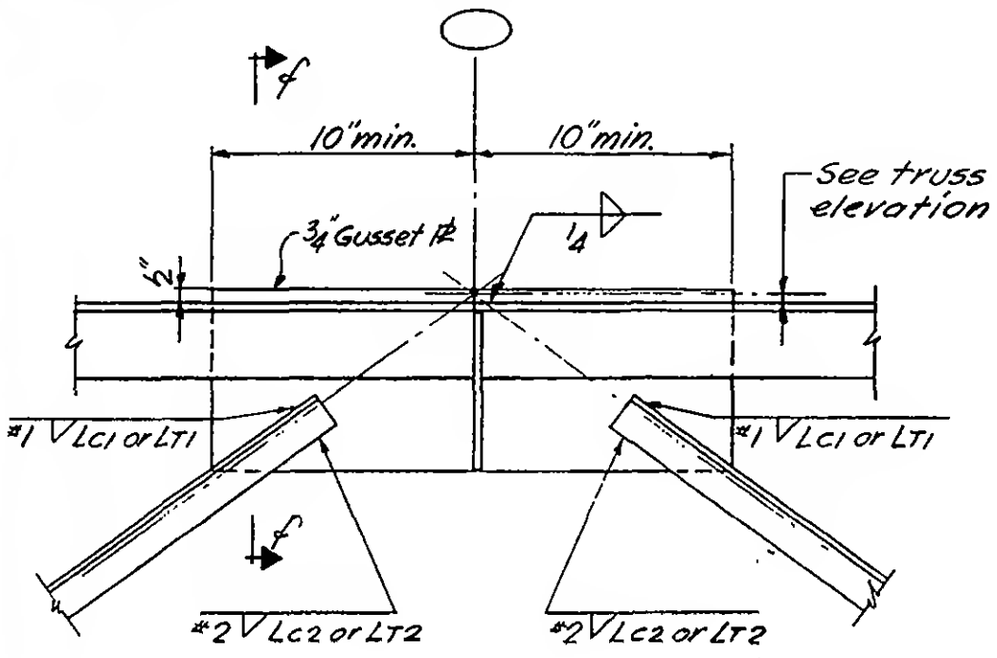
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

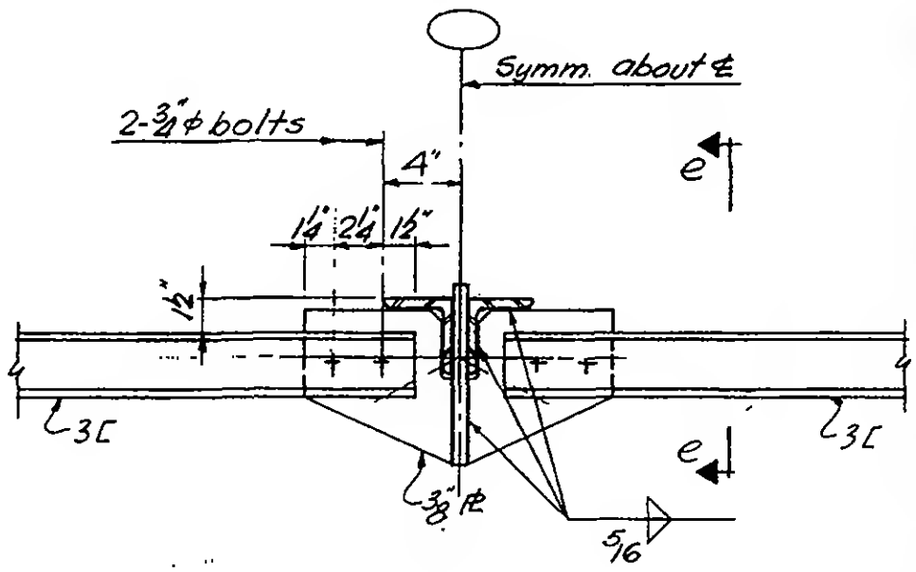
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.7 | DATE: 3-19-69

REVISIONS

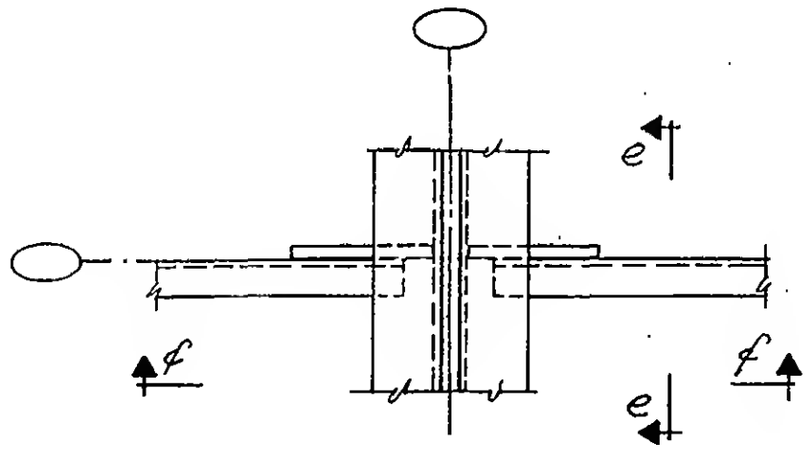


Section e-e

See table det. 3.1 for welds.
See 7-B7 for truss elevations.



Section f-f



Plan

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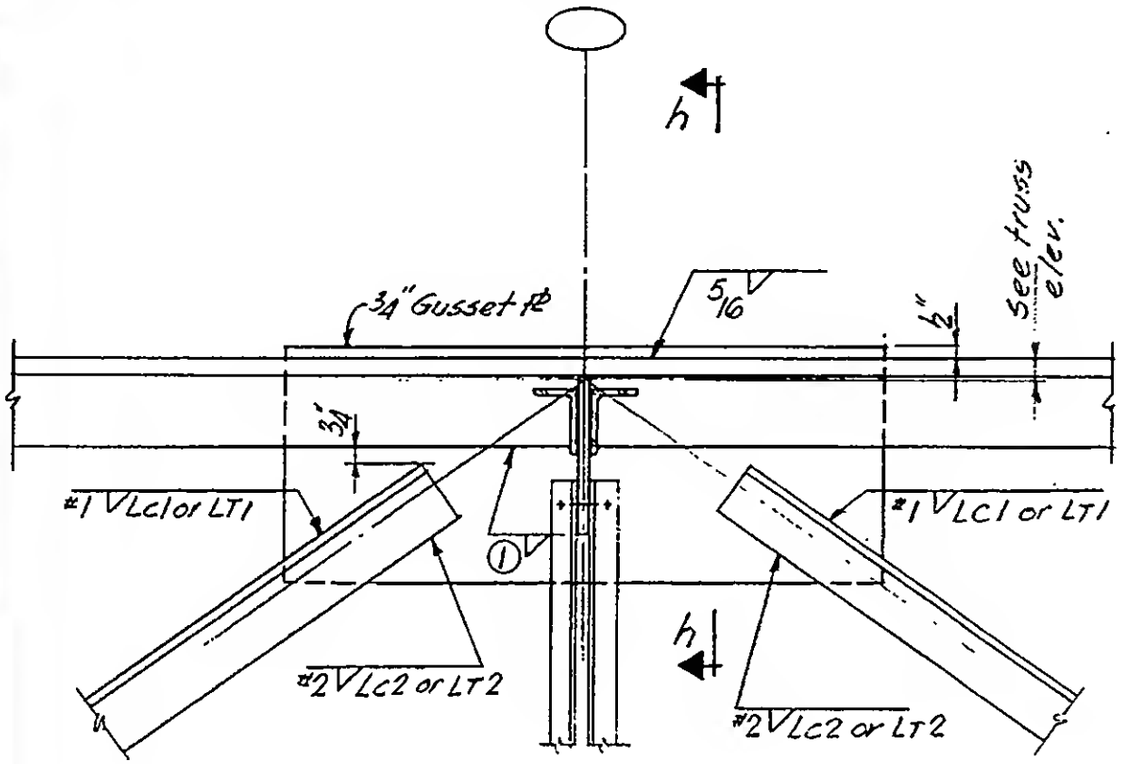
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.5

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

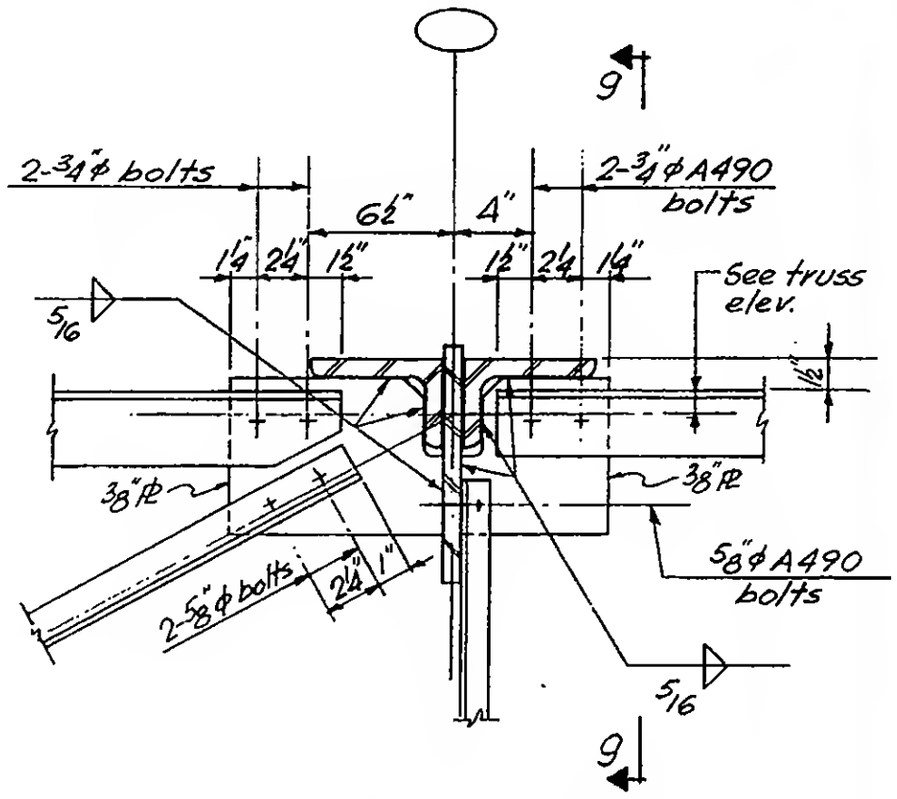
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.8 | DATE: 3-19-69

REVISIONS

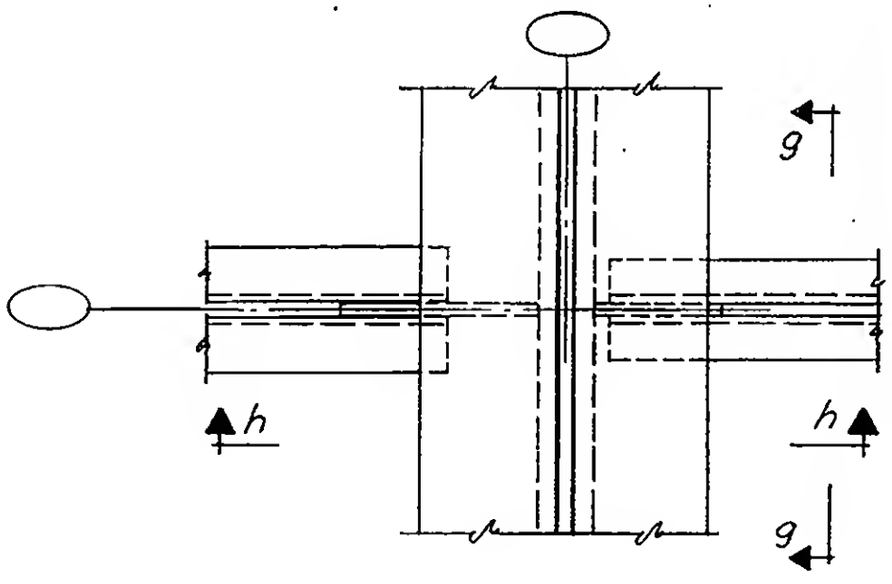


Section g-g

See table det. 3.1 for welds
See 7-B7 for truss elev.



Section h-h



Plan

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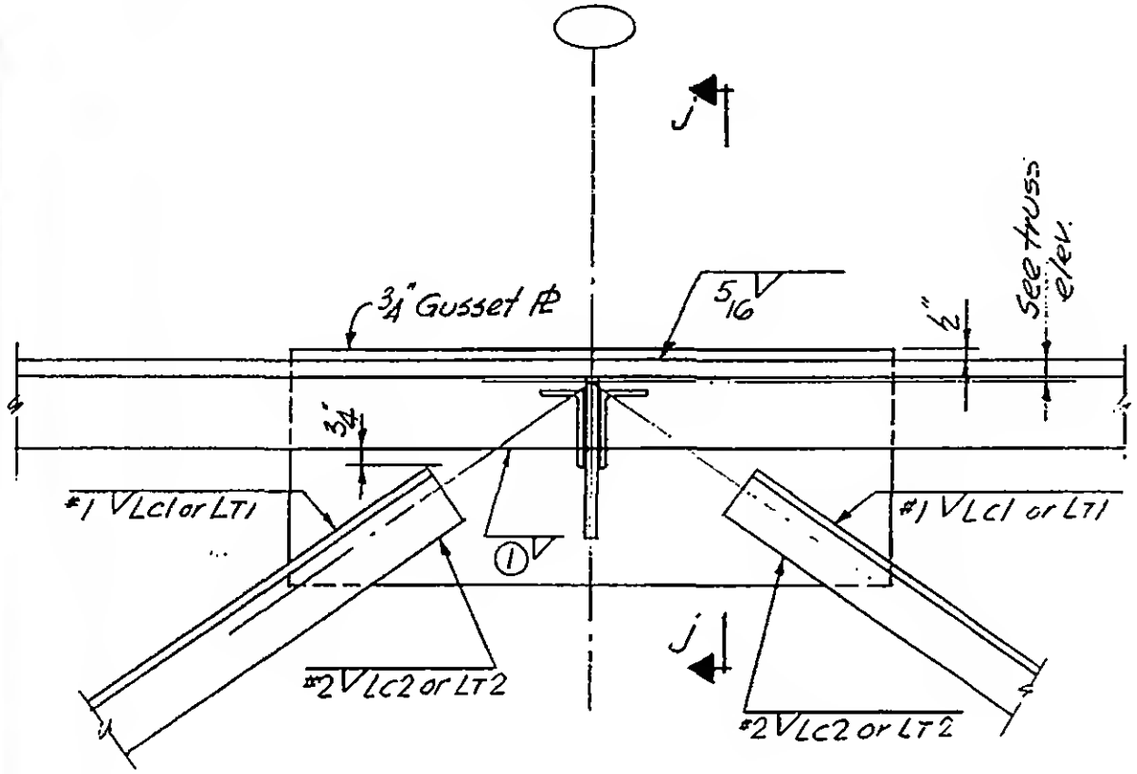
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.6

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

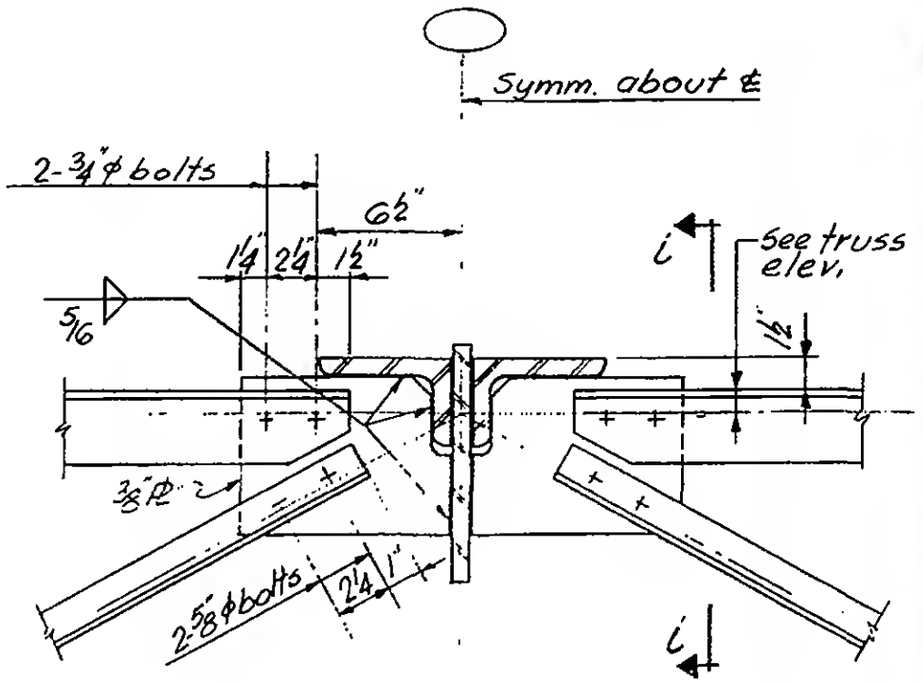
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.9 | DATE: 3-19-69

REVISIONS

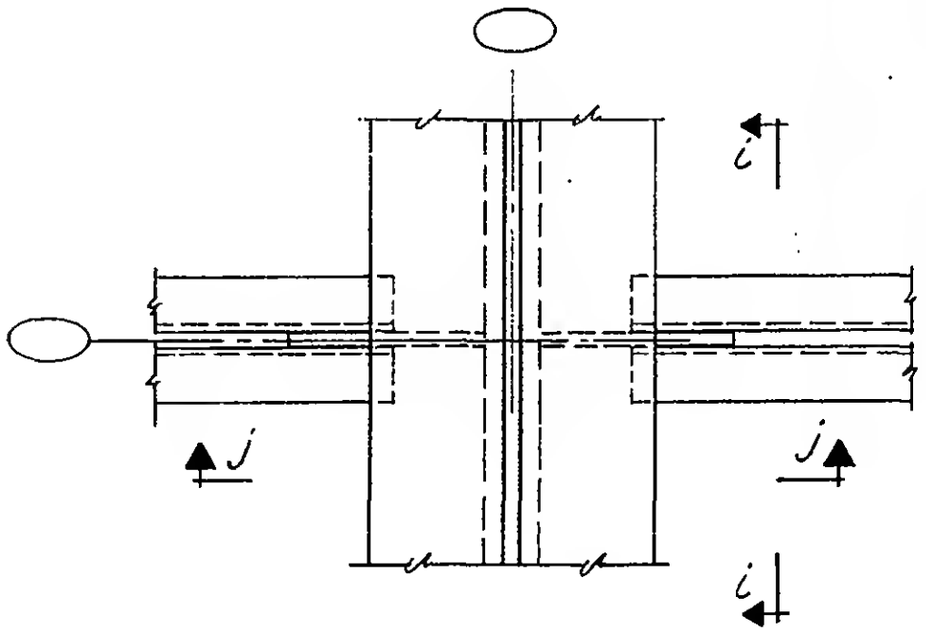


Section i-i

See table det. 3.1 for welds
See 7-B7 for truss elev.



Section j-j



Plan

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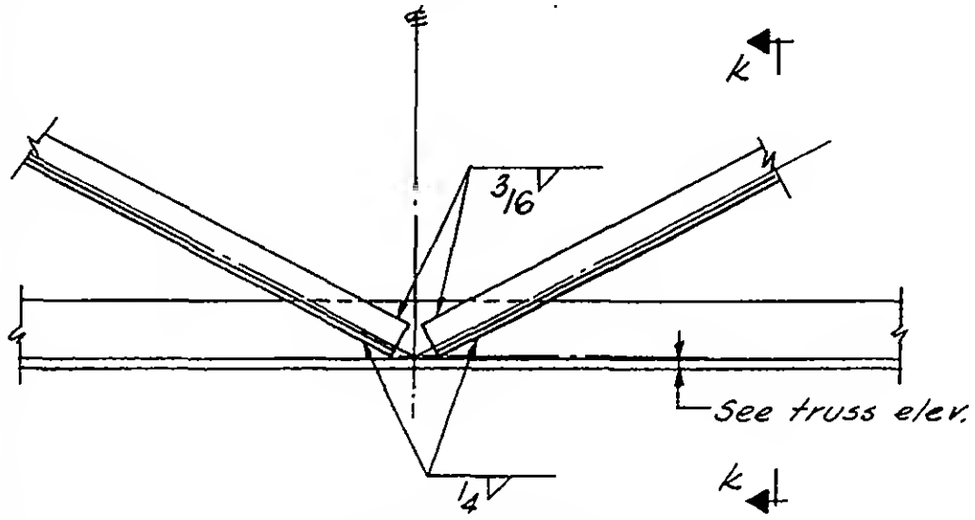
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.7

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAILS 3.10 & 3.11 | DATE: 3-19-69

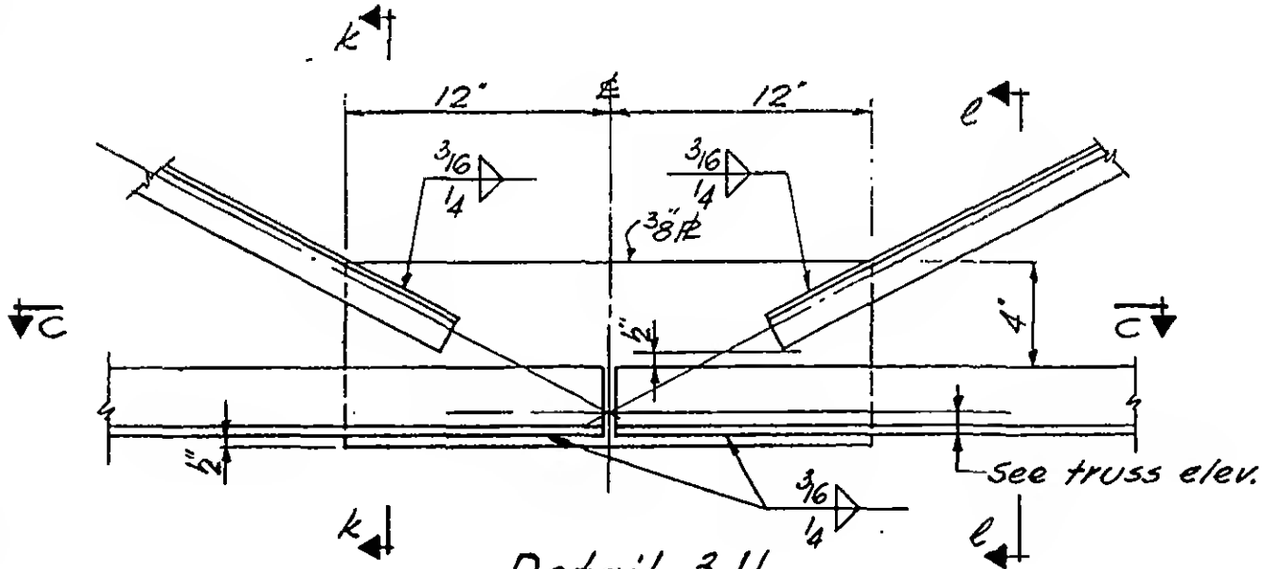
REVISIONS



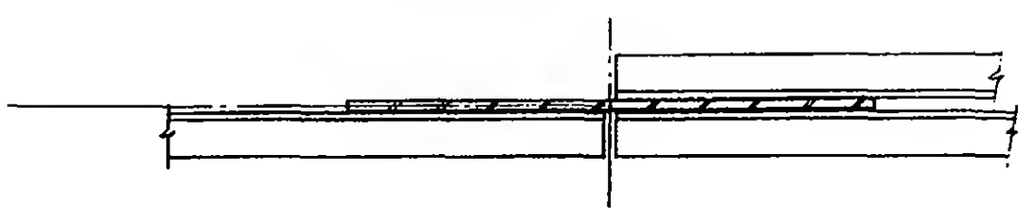
Detail 3.10



Section k-k

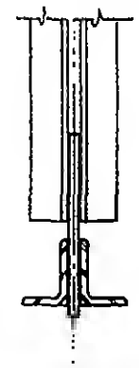


Detail 3.11



Plan

℄ Symm. about ℄



Section ℓ-ℓ

See 7-B7 for truss elev.

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DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.8

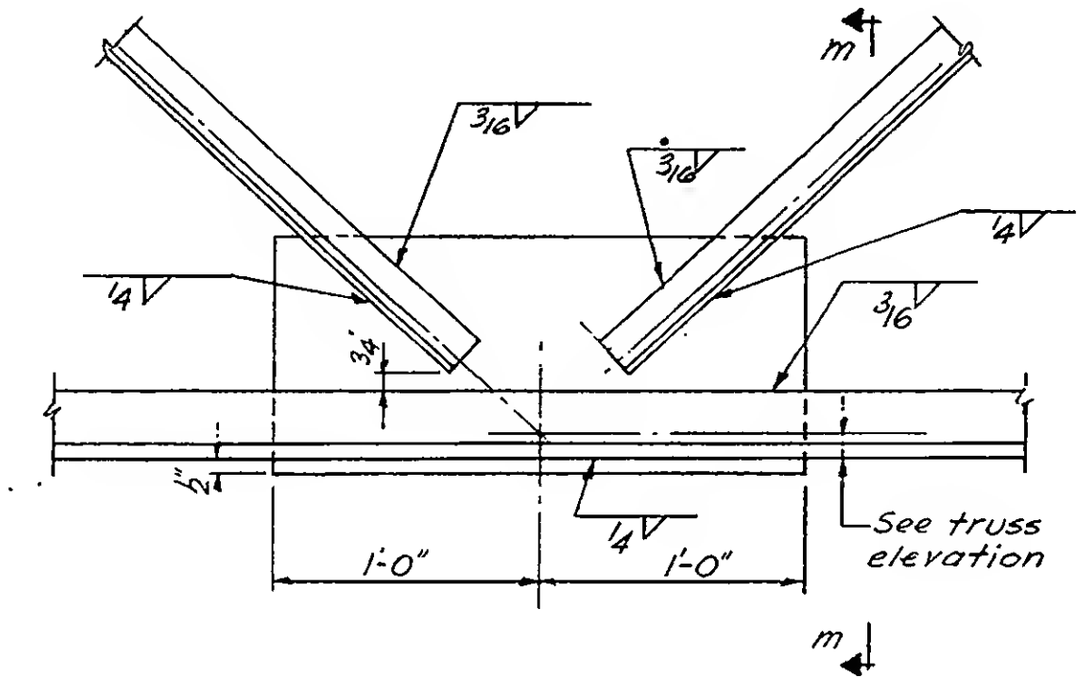
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

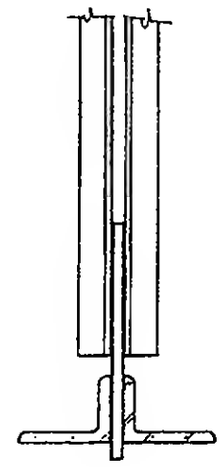
PROJECT: THE WORLD TRADE CENTER

TITLE: FLOOR TRUSS DETAIL 3.12

DATE: 3-19-69

REVISIONS





Section m-m

See 7-B7 for truss elev.

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No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Ghavamy

DRAWN J. Gricius

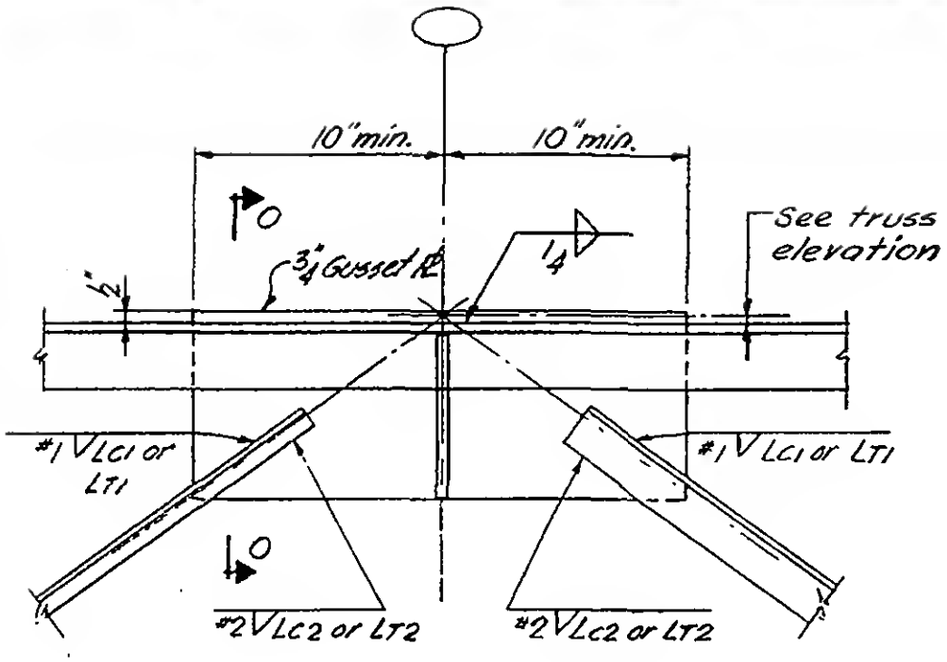
REVIEWED W. Brewer

7-B8-3.9

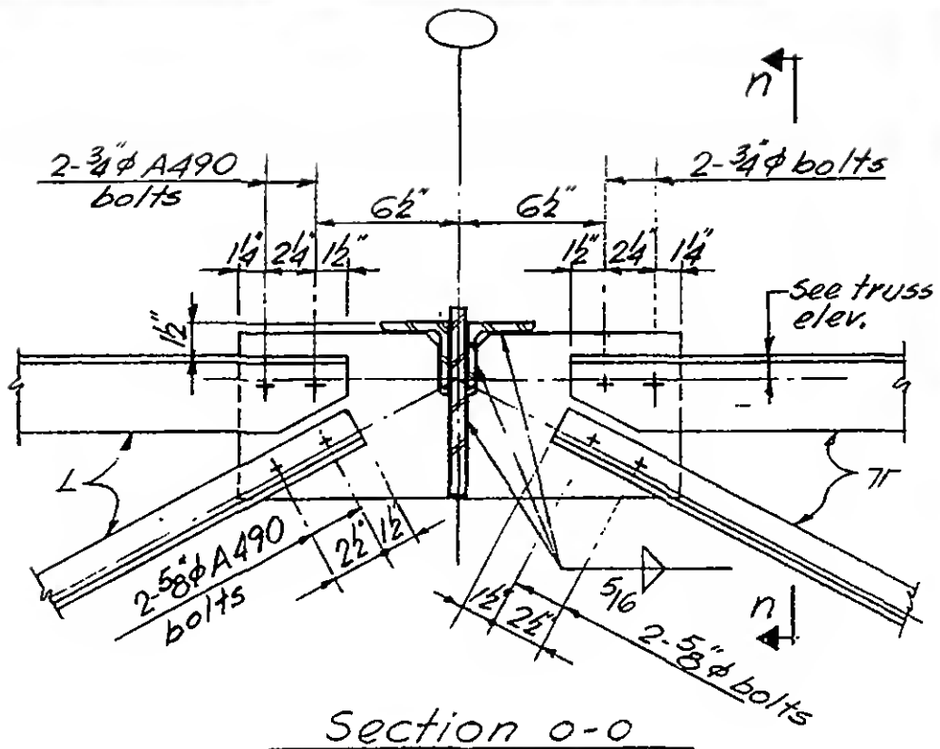
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAIL 3.13 | DATE 3-19-69

REVISIONS

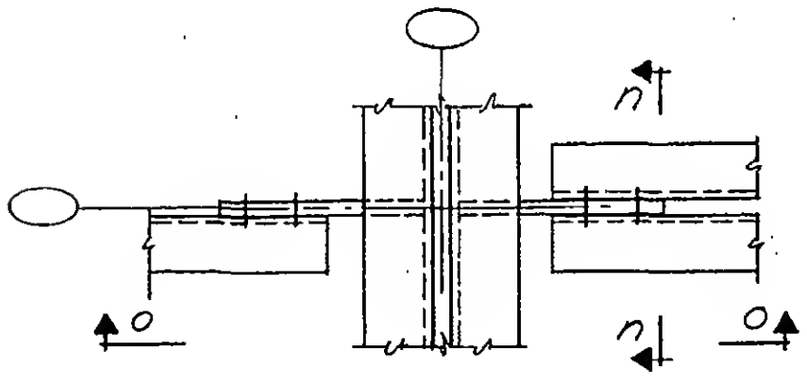


Section n-n



Section o-o

See table det. 3.1 for welds
see 7-B7 for truss elevations



Plan

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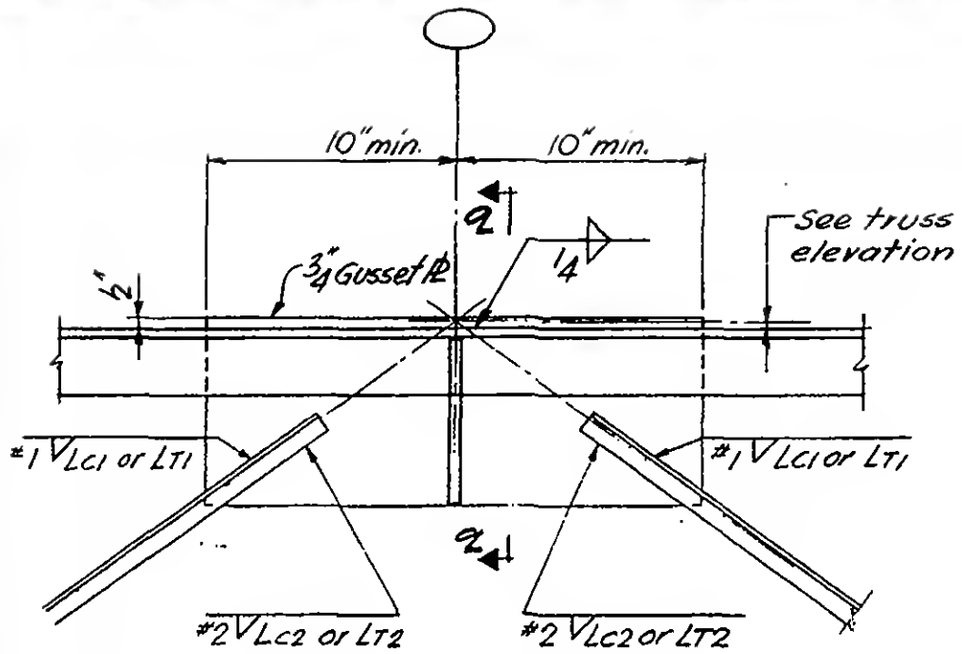
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DRAWN J. Gricius
REVIEWED W. Brower

7-BB-3.10

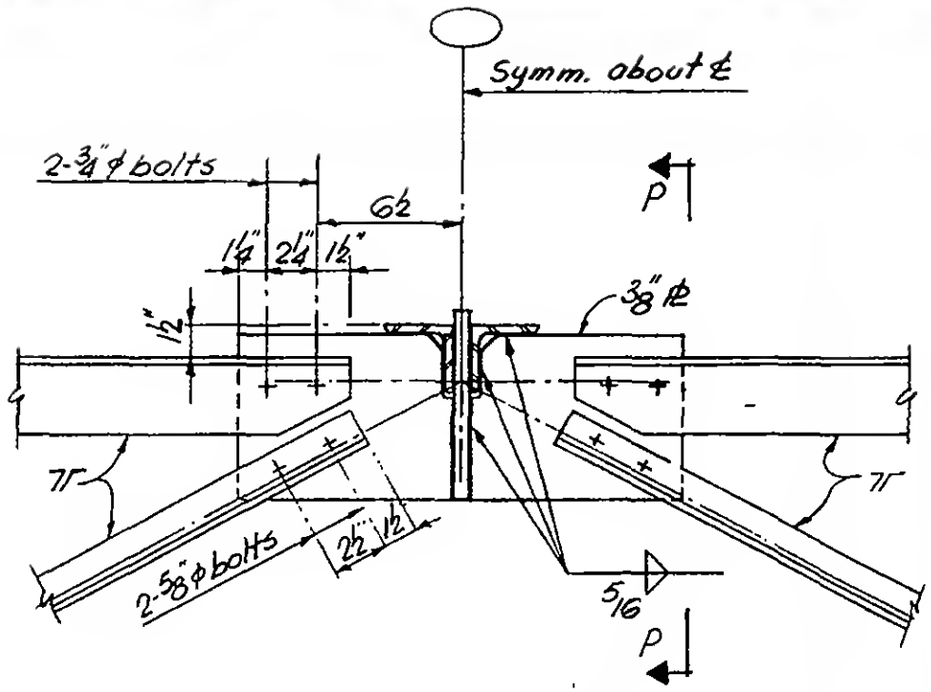
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.14 | DATE: 3-19-69

REVISIONS

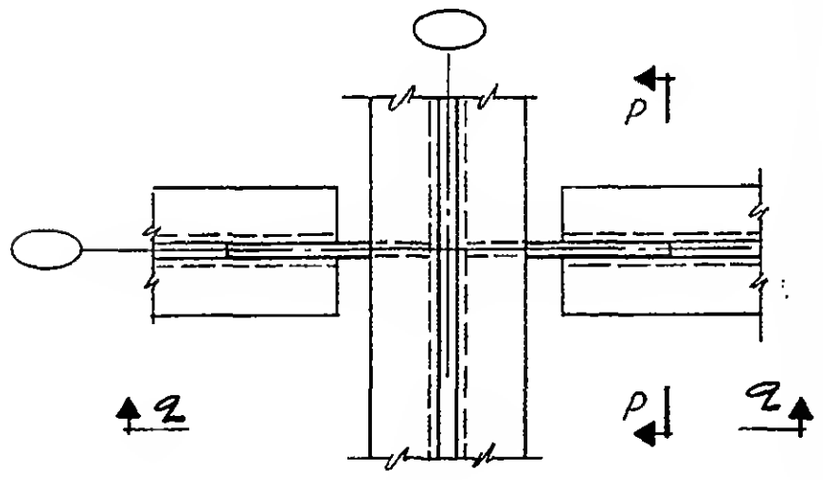


Section p-p



Section q-q

See table det. 3.1 for welds
See 7-B7 for truss elevations



Plan

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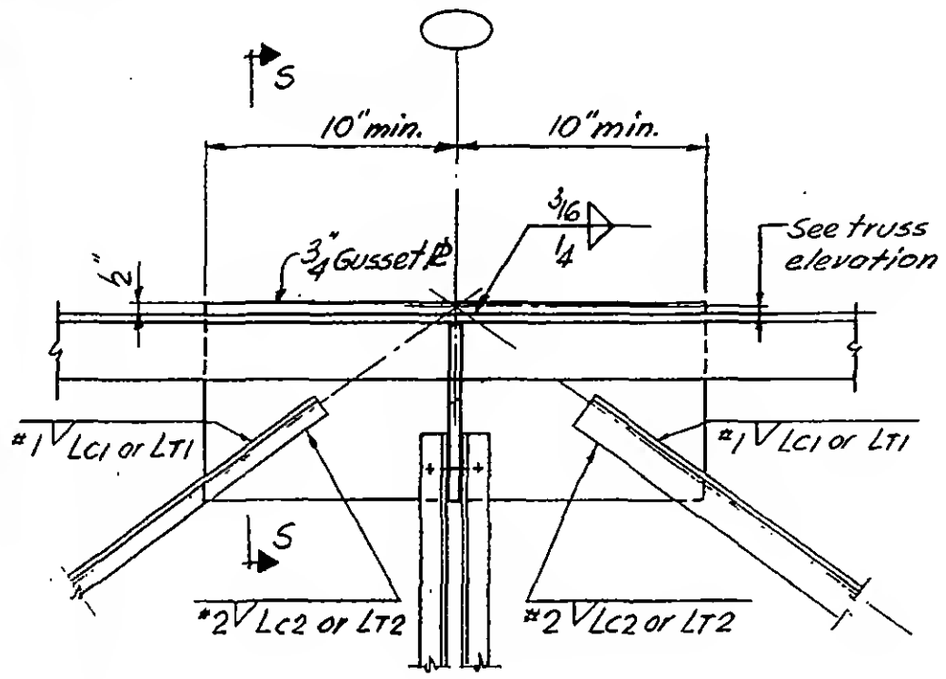
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REVIEWED W. Brewer

7-B8-3.11

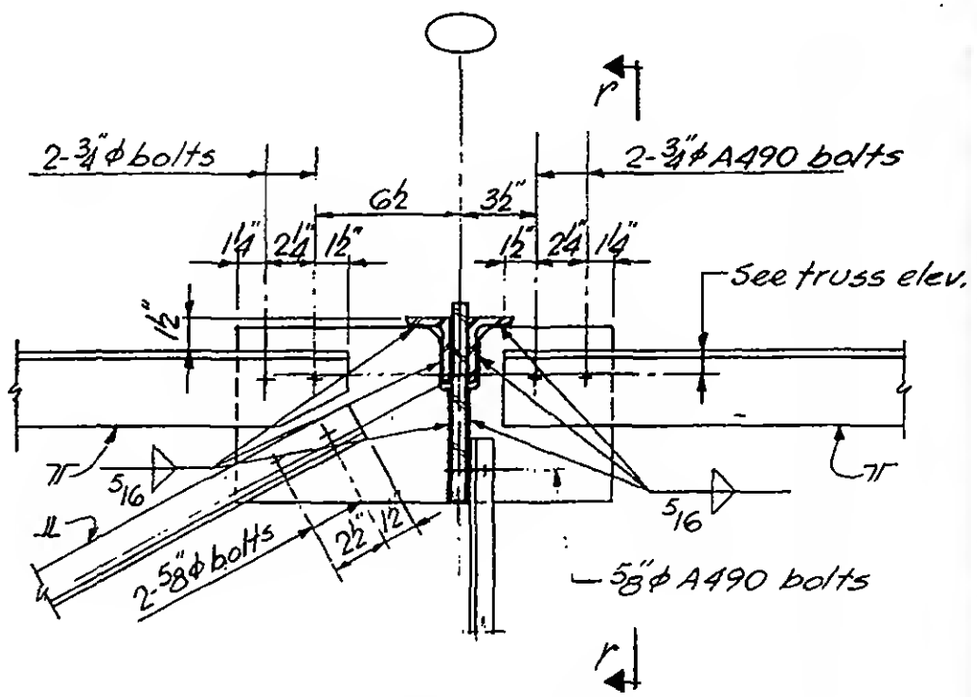
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.15 | DATE: 3-19-69

REVISIONS

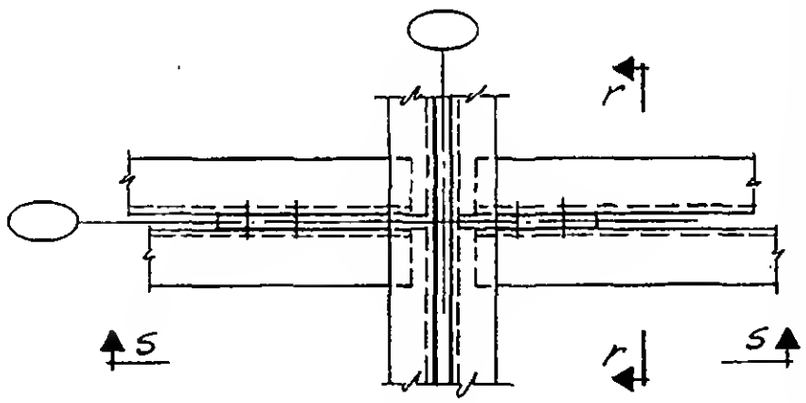


Section r-r



Section 5-5

See table det. 3.1 for welds
See 7-B7 for truss elevations



Plan

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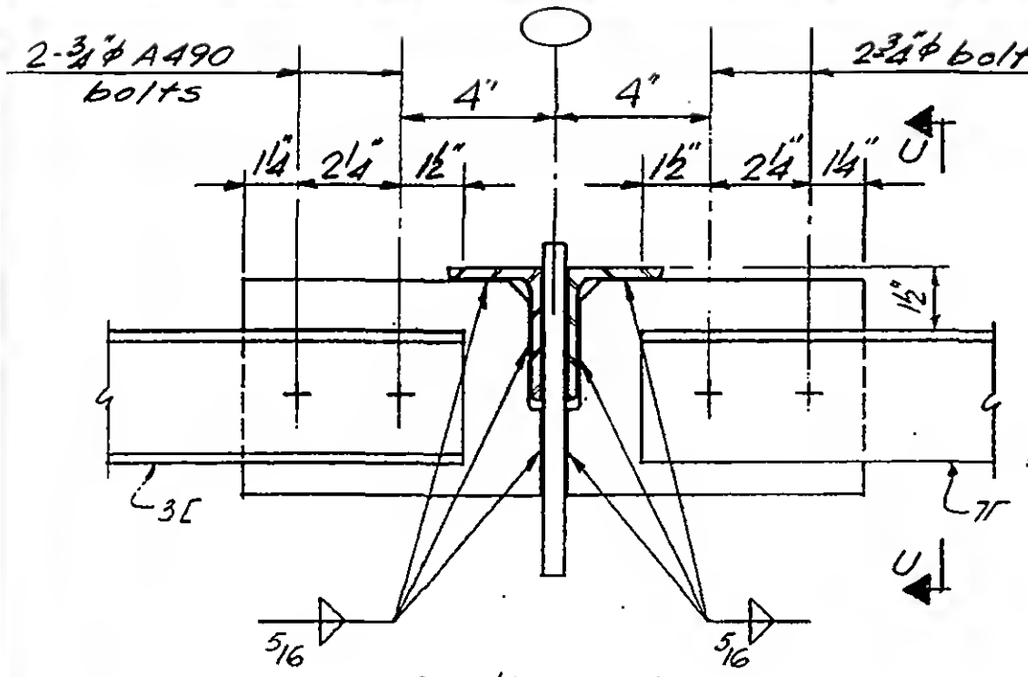
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DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.12

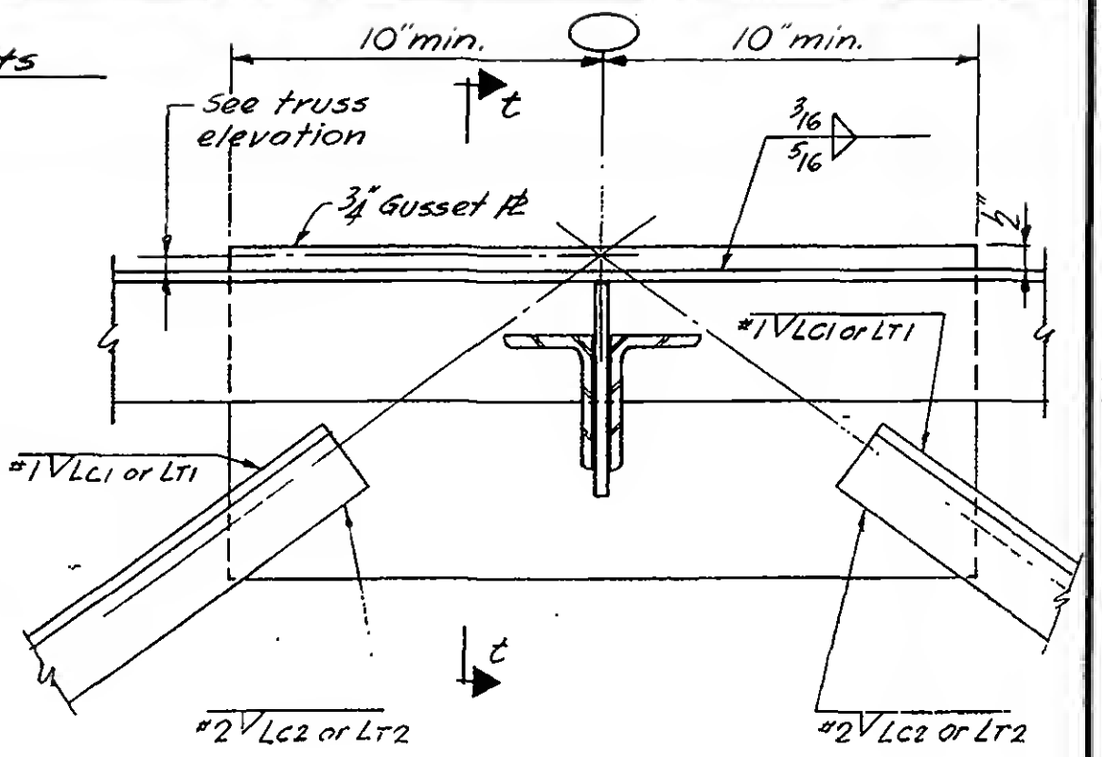
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAIL 3.16 | DATE 3-19-69

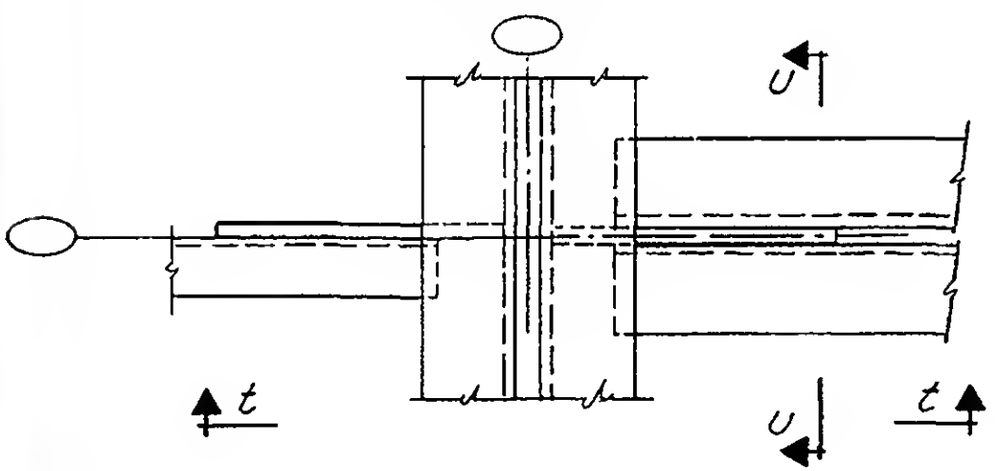
REVISIONS



Section t-t



Section U-U



Plan

See table det 3.1 for welds.
See 7-B7 for truss elevations.

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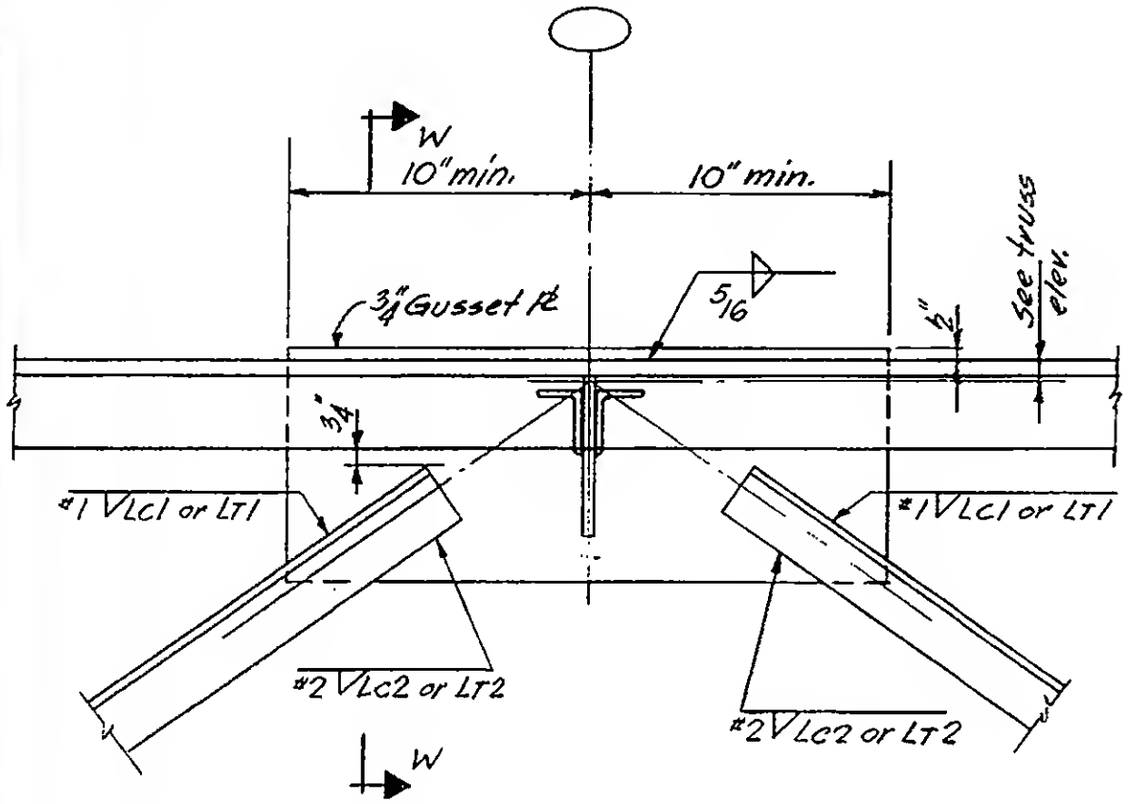
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.13

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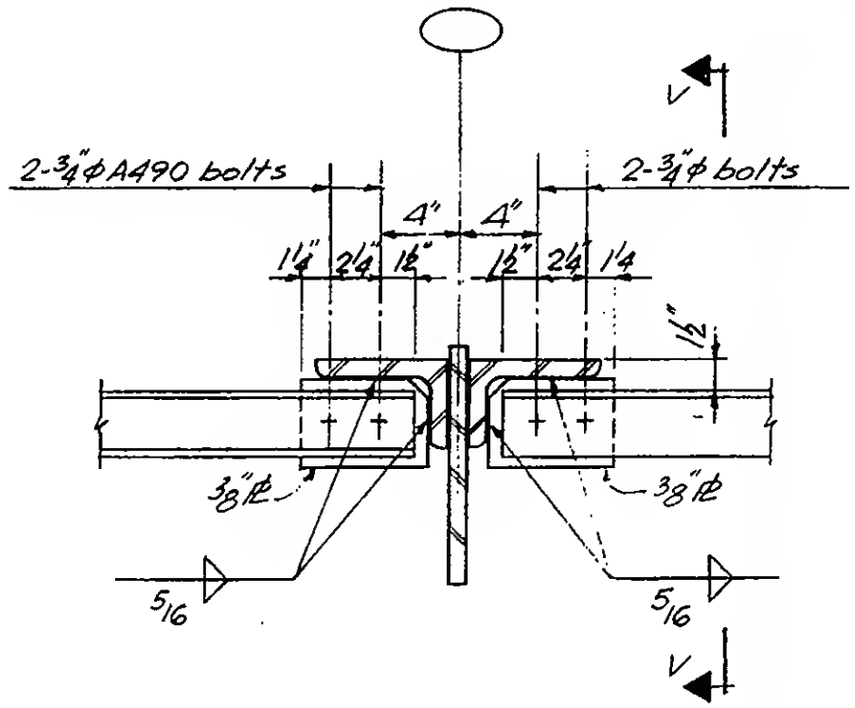
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.17 | DATE: 3-19-69

REVISIONS

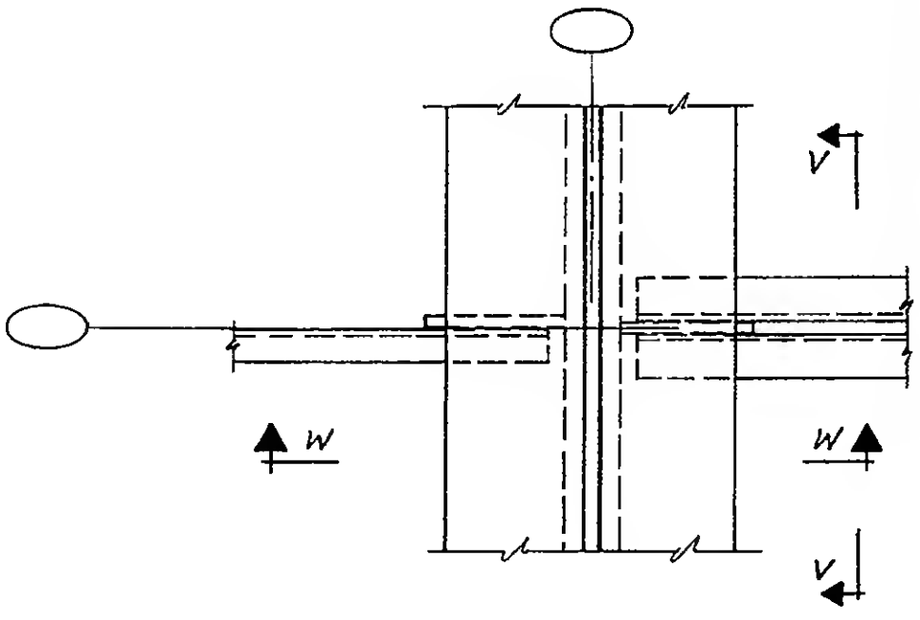


Section V-V

See table det. 3.1 for welds.
See 7-B7 for truss elev.



Section W-W



Plan

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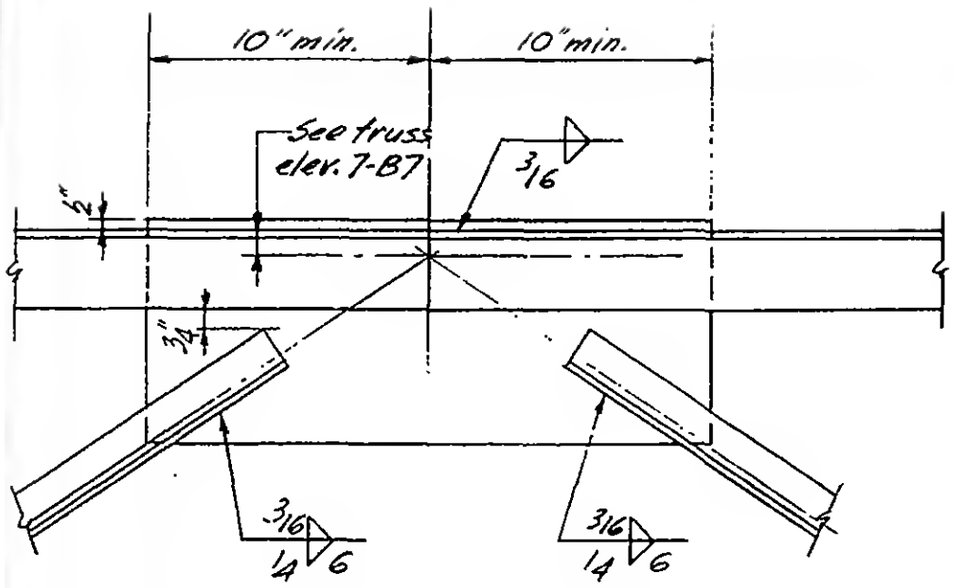
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DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.14

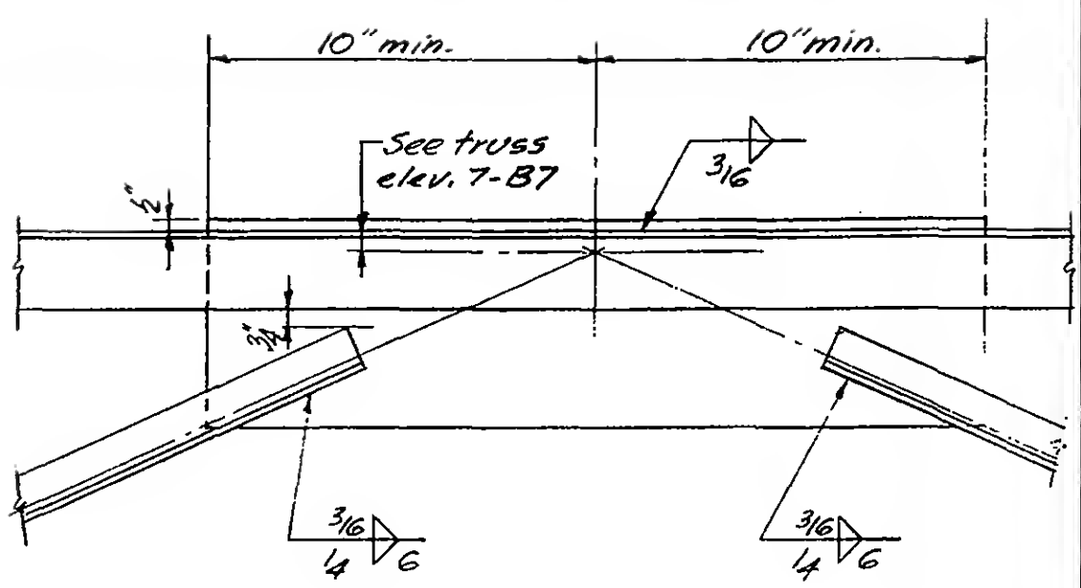
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 3.18 & 3.19 | DATE: 3-19-69

REVISIONS



DETAIL 3.18



DETAIL 3.19

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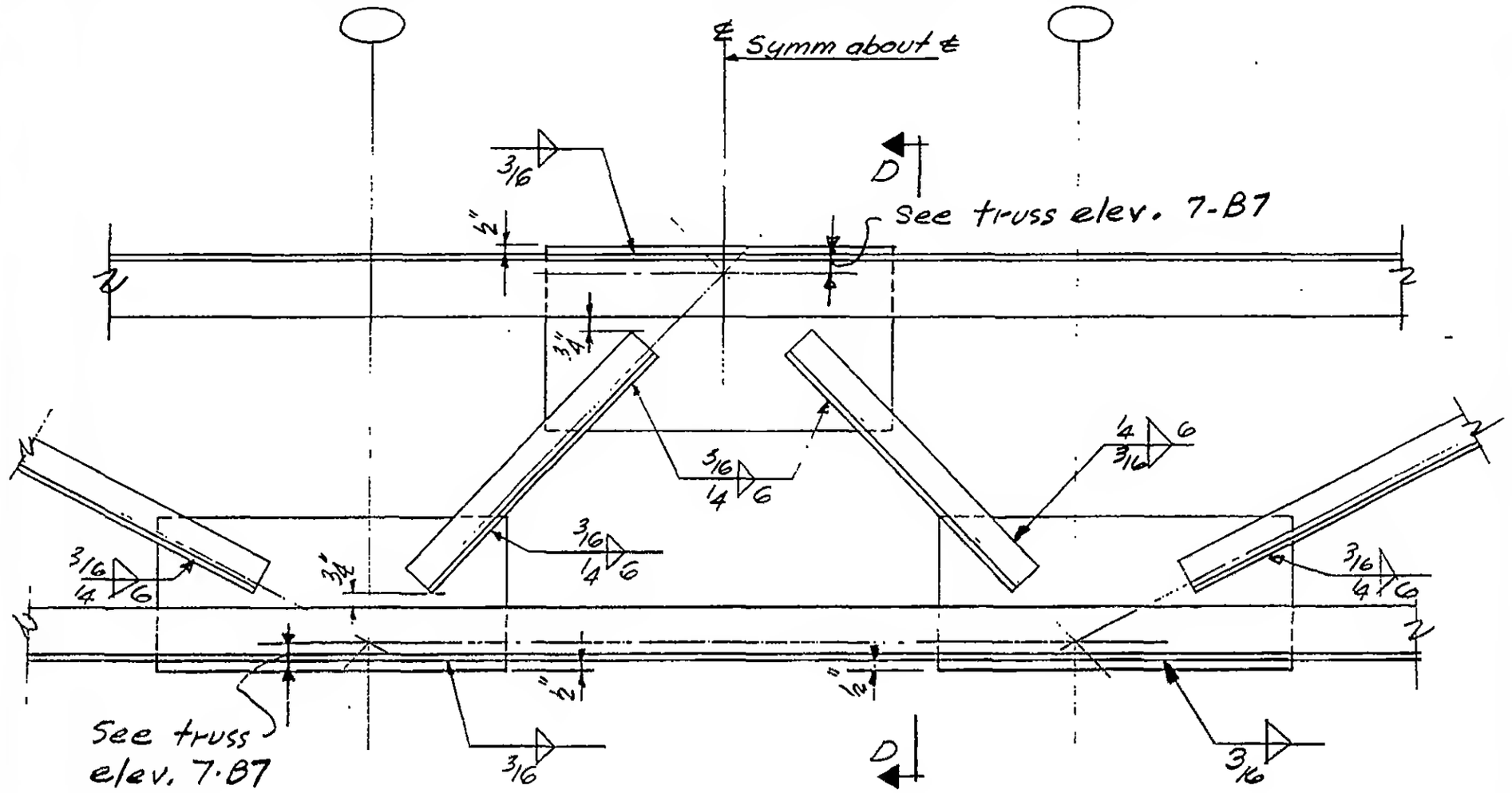
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DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-3.15

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	FLOOR TRUSS DETAIL 3.20	3-19-69

REVISIONS





Section D-D

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UNIVERSITY OF THE STATE OF NEW YORK

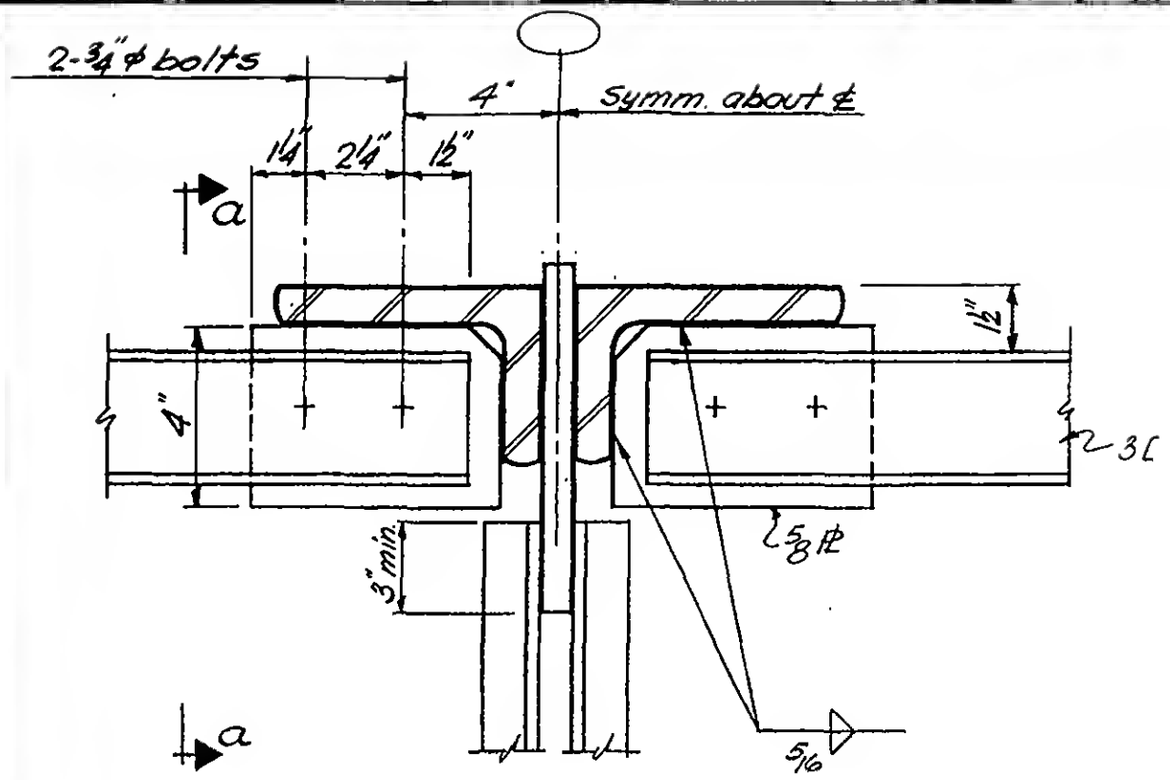
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REVIEWED W. Brewer

7-B8-3.16

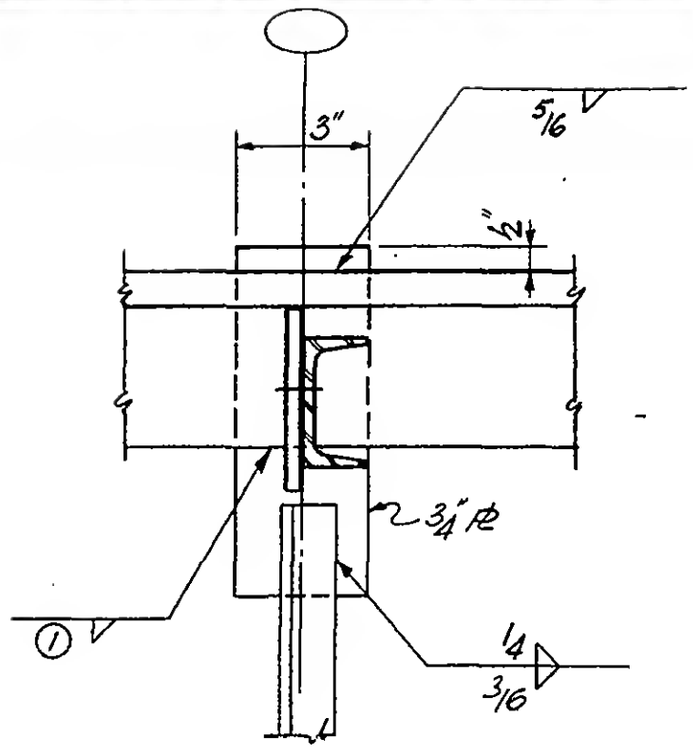
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAILS 4.1, 4.2, 4.3 | DATE 3-19-69

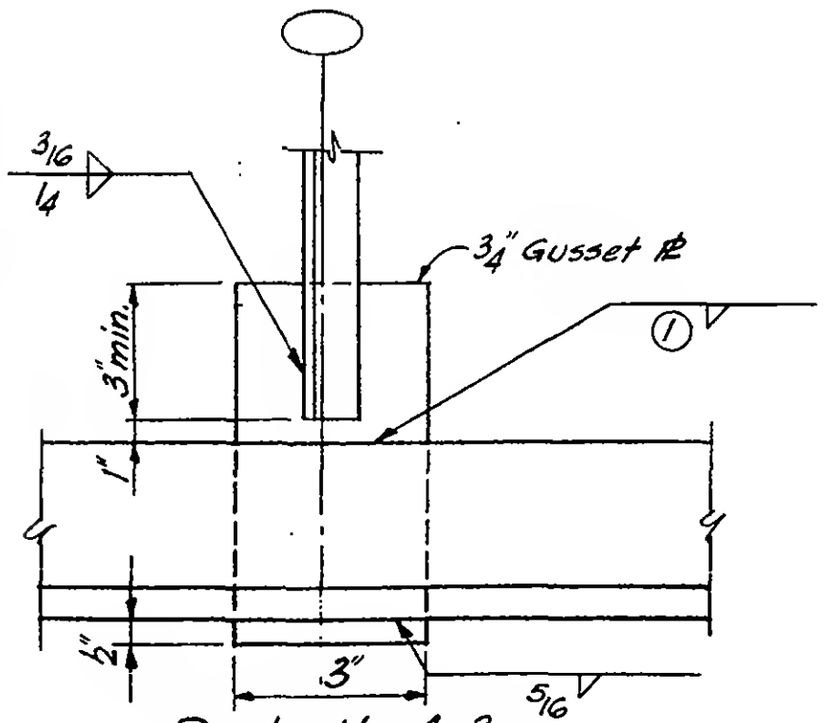
REVISIONS



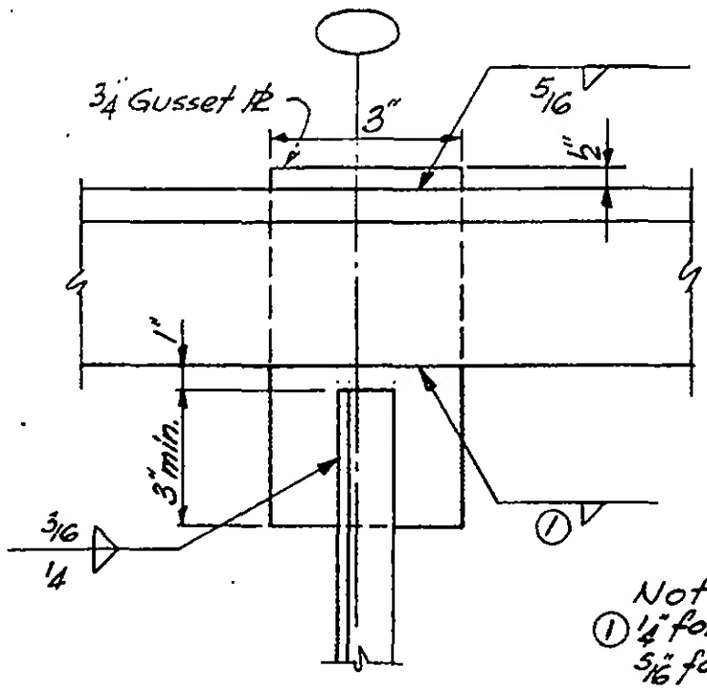
Detail 4.1



Section a-a



Detail 4.3



Detail 4.2

Note:
① ¼" for 7T ≤ to ¾" thick.
5/16" for 7T > than ¾" thick.
See 7-B7 for truss elev.

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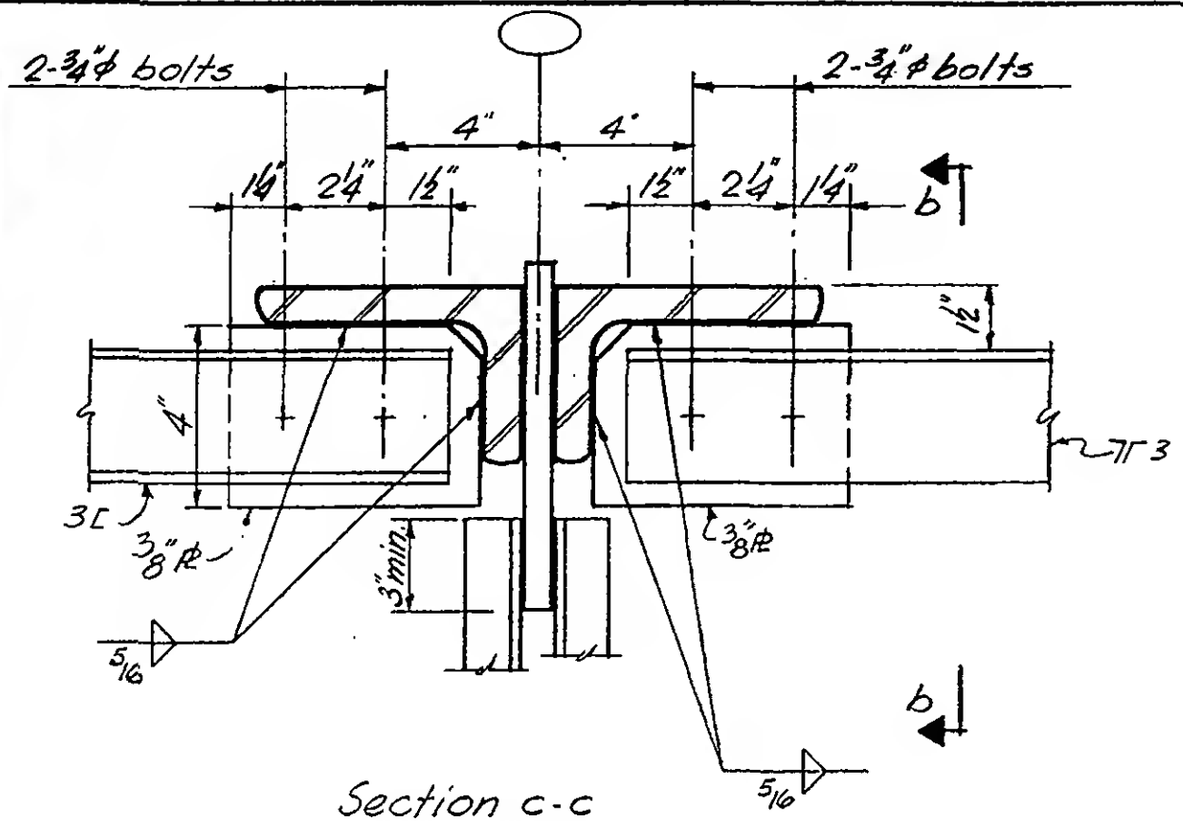
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-4.1

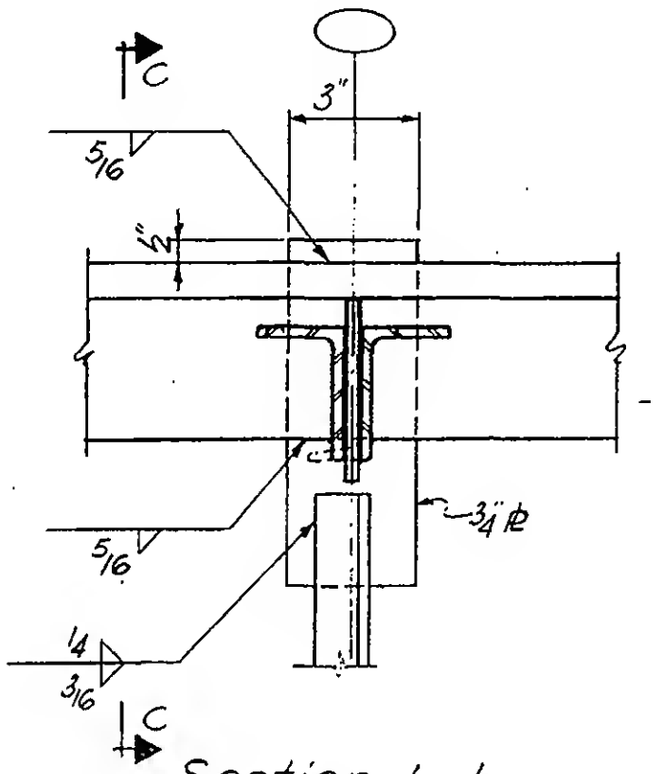
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PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAILS 4.4 | DATE 3-19-69

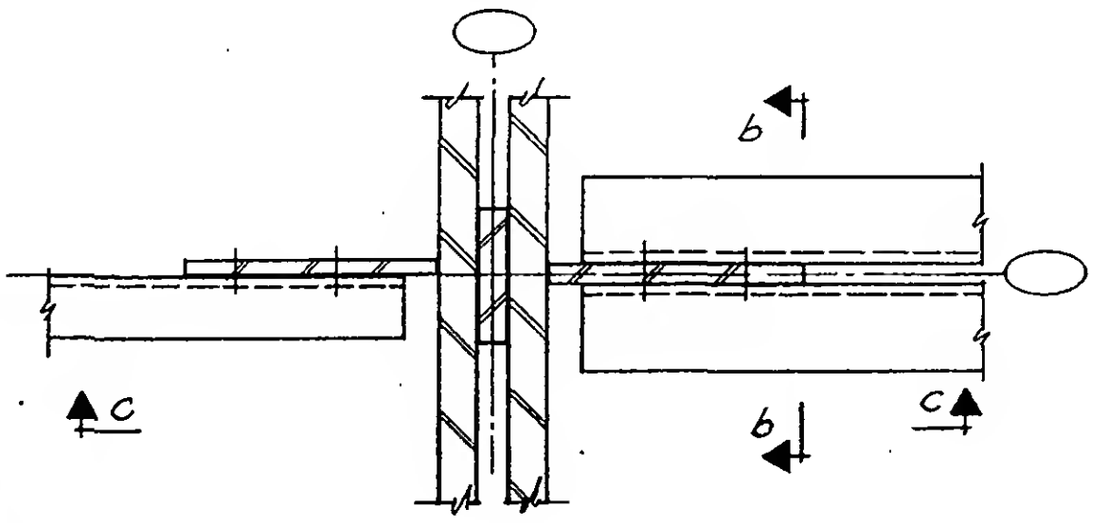
REVISIONS



Section c-c



Section b-b



Plan

See 7-B7 for truss elev.

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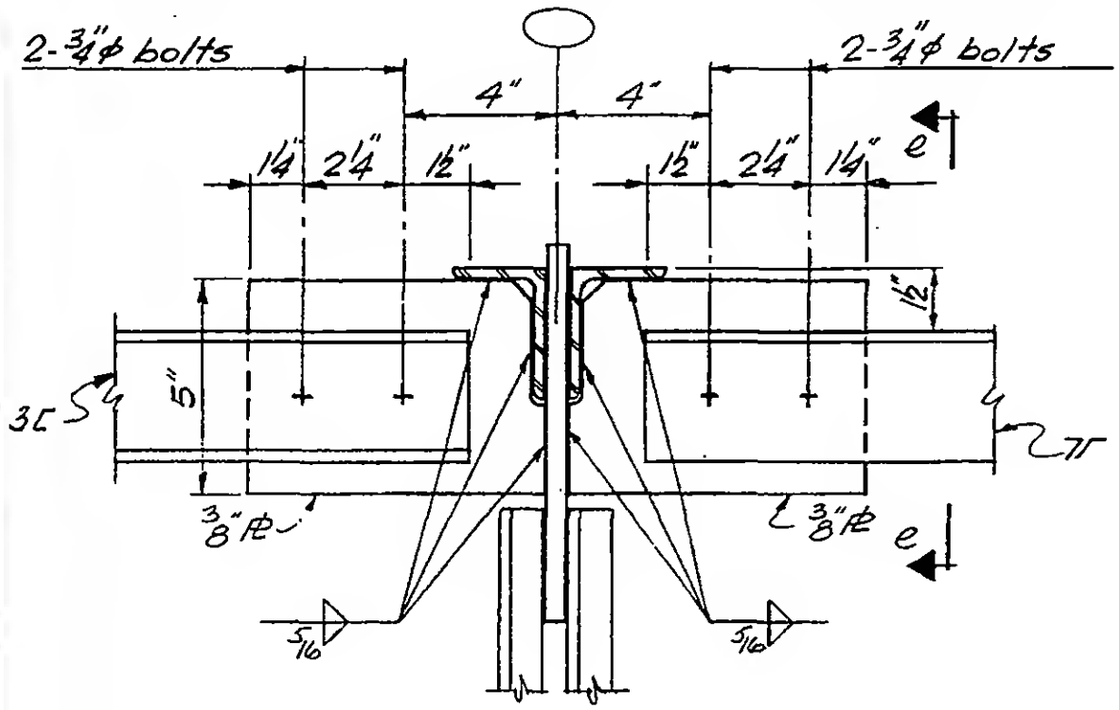
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DRAWN J. Gricius
REVIEWED W. Brewer R.

7-B8-4.2

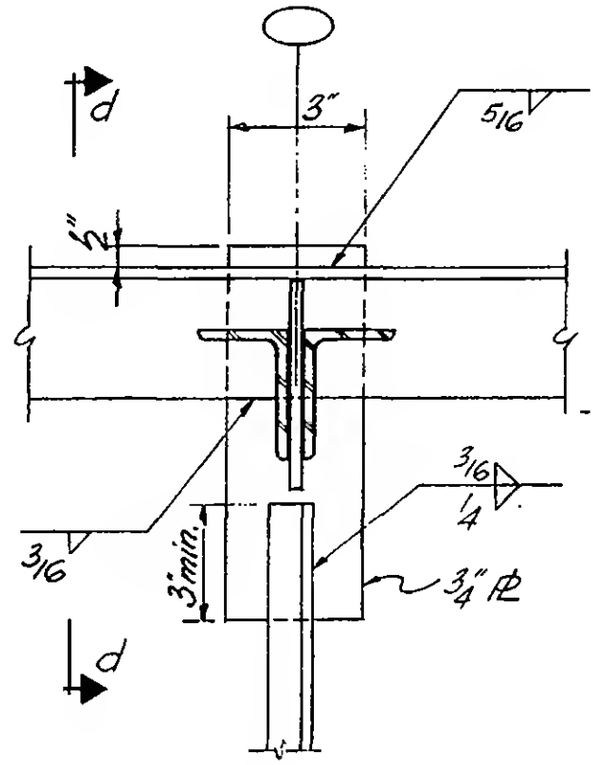
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 4.5 | DATE: 3-19-69

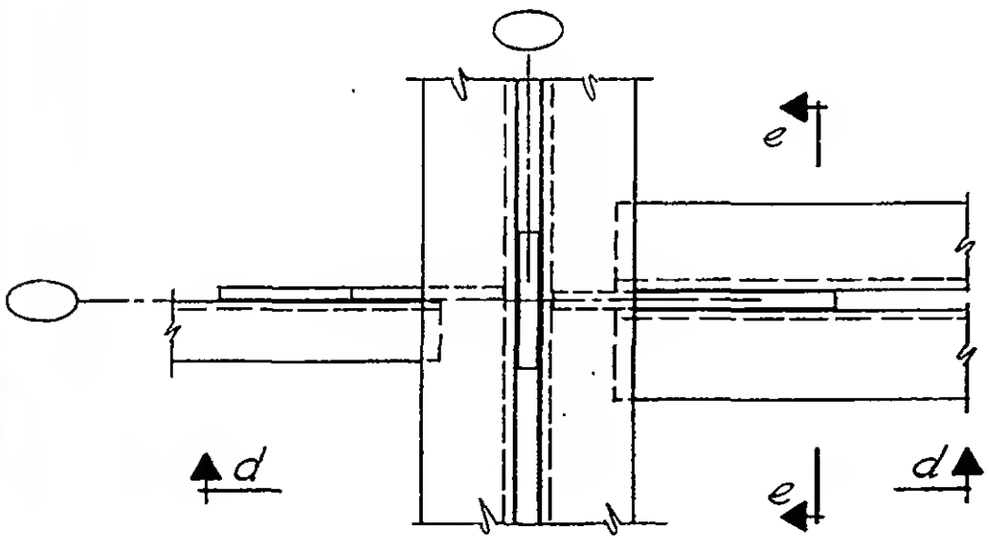
REVISIONS



Section d-d



Section e-e



Plan

See 7-B7 for truss elev.

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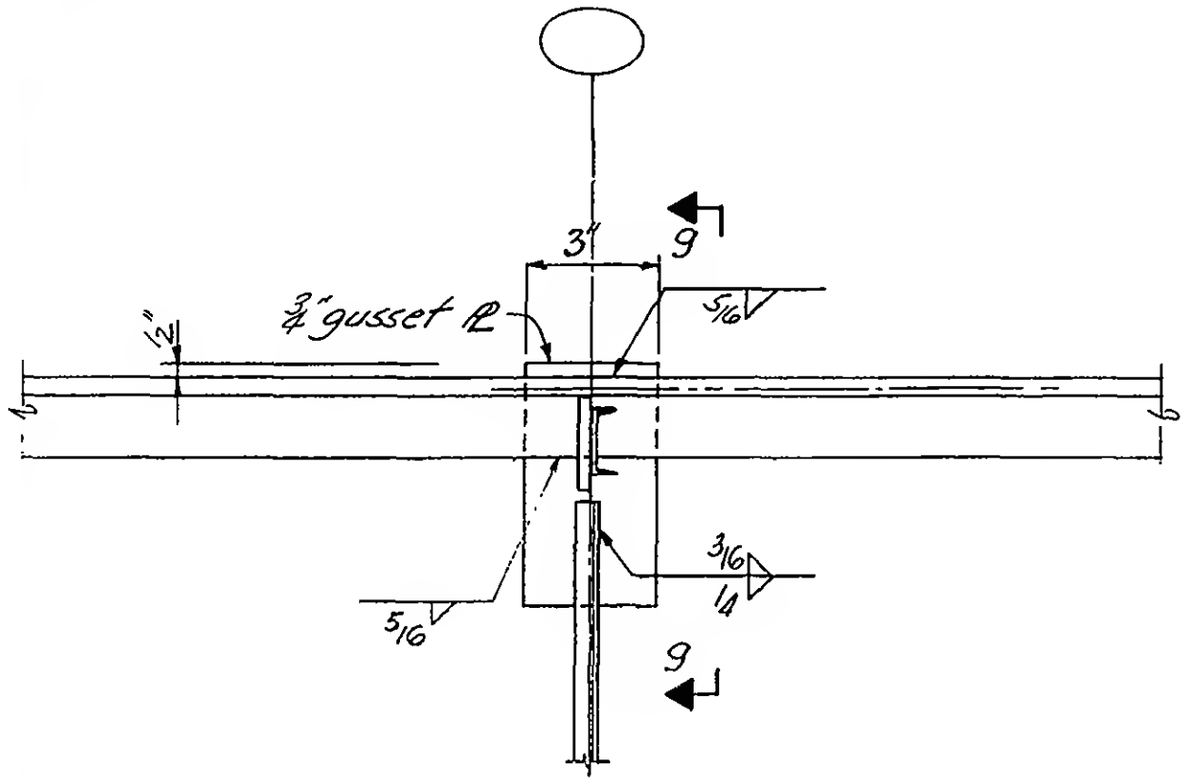
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DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-4.3

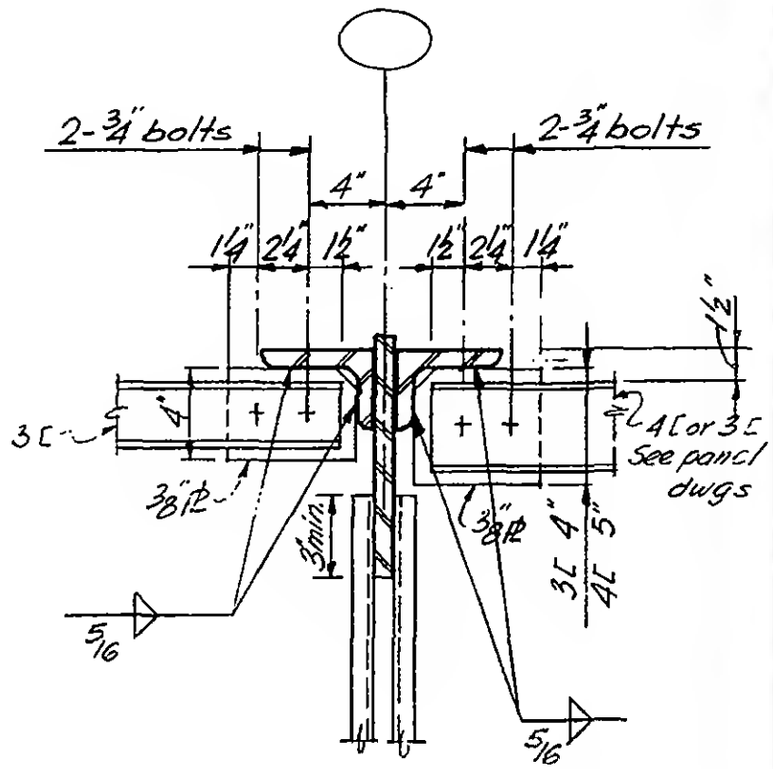
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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 4.6 | DATE: 3-19-69

REVISIONS



Section f-f



Section 9-9

See 7-B7 for truss elev.

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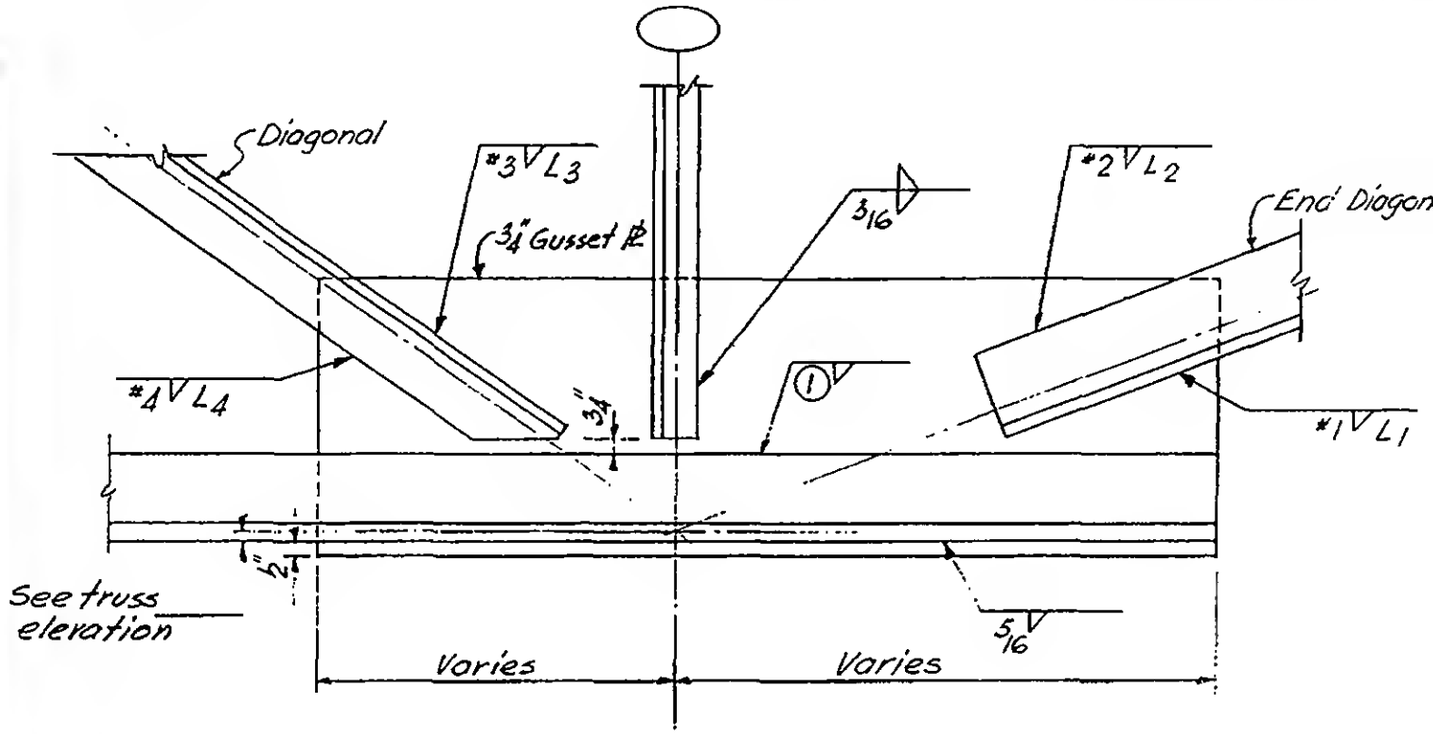
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DRAWN J. Adams
REVIEWED W. Brewer

7-B8-4.4

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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 5.1 | DATE: 3-19-69

REVISIONS



Member size	End Diagonal			
	Weld #1	L_1	Weld #2	L_2
1¼×1¼×¼	¼	6	3/16	4
1¾×1¾×¼	5/16	6	3/16	4
3×2×¼	3/8	6	3/16	6
2½×2×5/16	3/8	7	¼	5
2½×2×3/8	3/8	8	¼	6
3×2×7/16	3/8	9	5/16	6
3×2×3/8	3/8	9	5/16	6
3×2×½	7/16	9	3/8	6
4×3½×3/8	9/16	10	5/16	7
4×3½×½	11/16	10	7/16	7
2½×2×¼	3/8	6	3/16	6

Note (1)
¼" for JL ≤ to ¾" thick
5/16" for JL > than ¾" thick

See 7-B7 for truss elevations

Member size	Diagonal			
	Weld #3	L_3	Weld #4	L_4
1¾×1¼×¼	¼	4	3/16	4
2×1½×¼	5/16	5	3/16	5
2½×1½×¼	5/16	6	3/16	5
2½×2×¼	5/16	6	3/16	5
2½×2×5/16	5/16	6	¼	5
3×2×¼	5/16	7	3/16	5
3×2×7/16	5/16	9	5/16	6
3×2×½	7/16	9	5/16	6
3×2½×½	7/16	9	5/16	6

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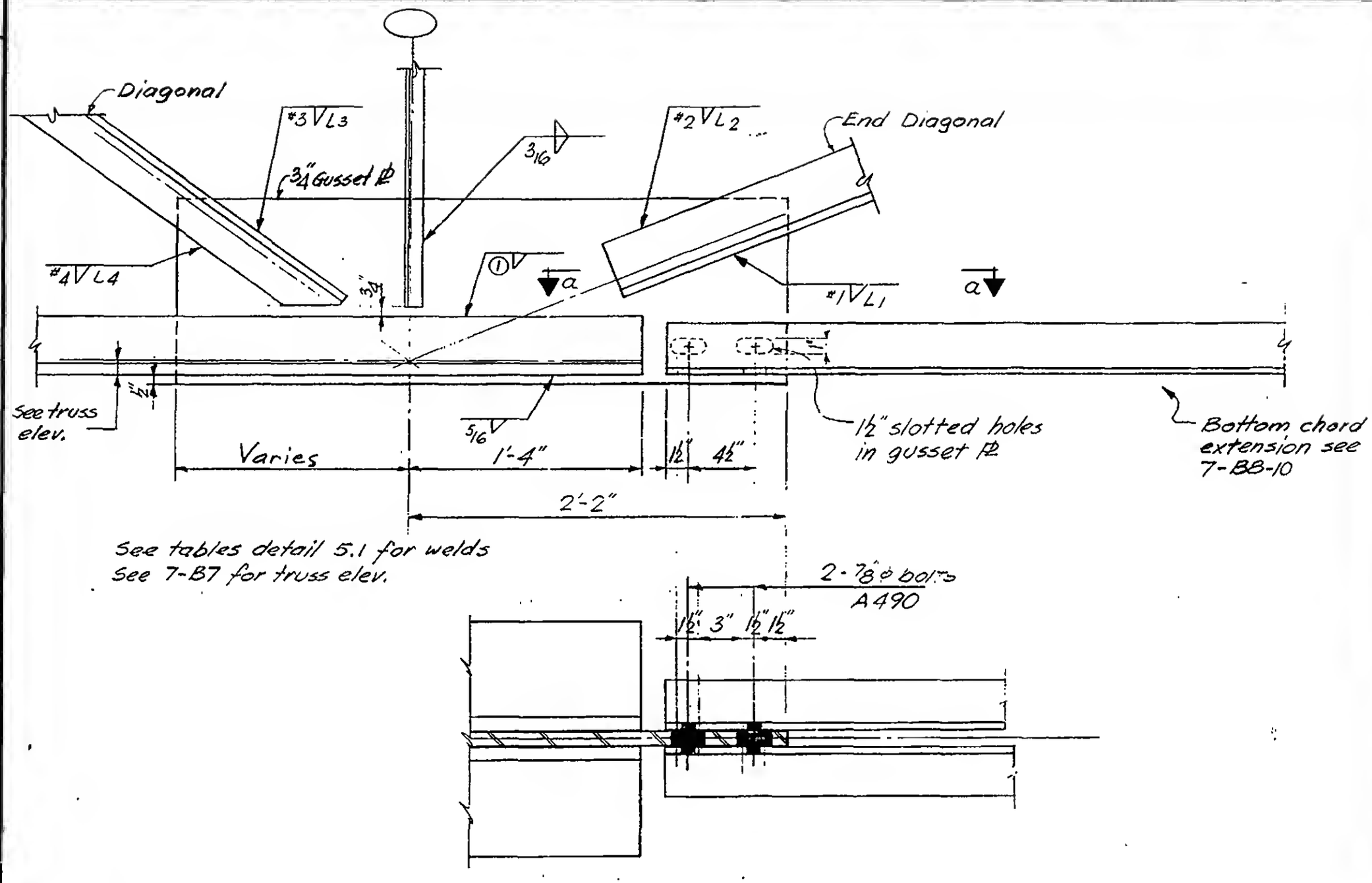
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-5.1

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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 5.2 | DATE: 3-19-69

REVISIONS



Section a-a

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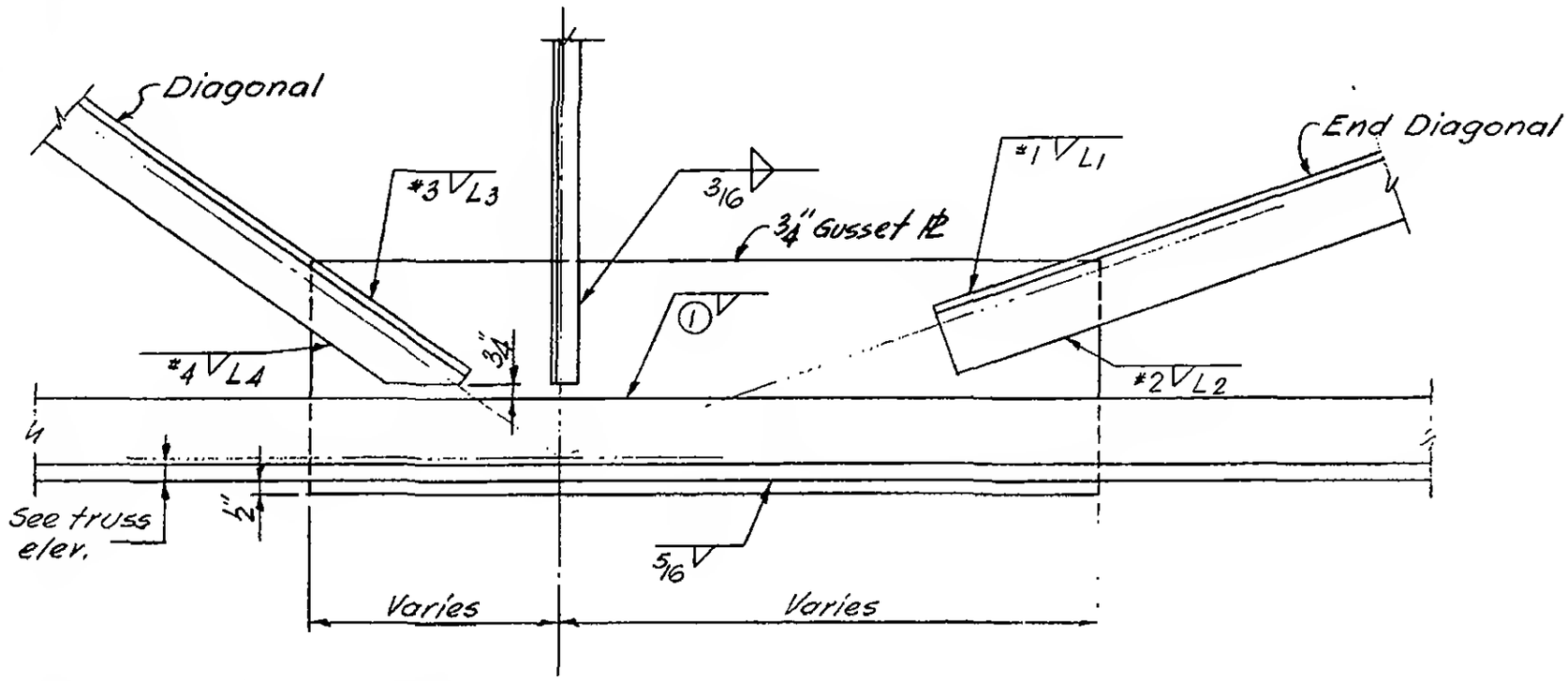
REVIEWED W. Brewer

7-B8-5.2

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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 5.3 | DATE: 3-19-69

REVISIONS



See table Det. 5.1 for welds
See 7-B7 for truss elev.

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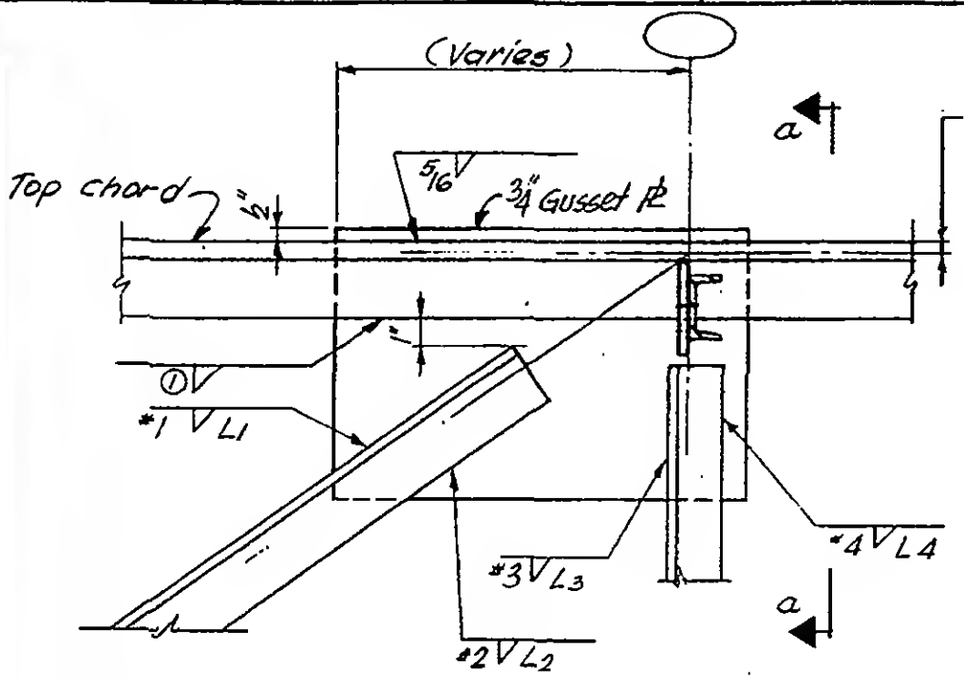
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-5.3

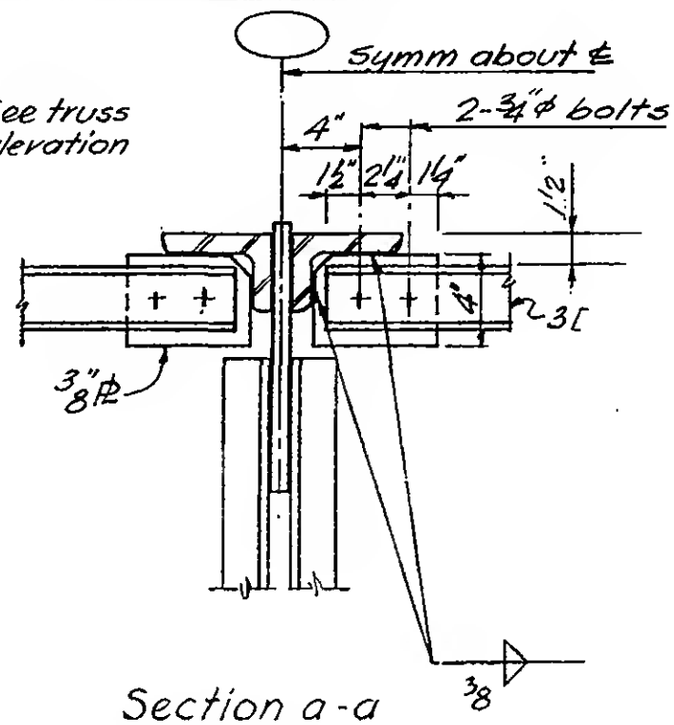
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 6.1 | DATE: 3-19-69

REVISIONS



Note ①
1/4" for tr ≤ to 3/4" thick
5/8" for tr > 3/4" thick
See 7-B7 for truss elevation



Section a-a

Member size	Diagonal			
	Weld #1	L_1	Weld #2	L_2
1¾ × 1¾ × ¼	5/16	6	3/16	4
2½ × 1½ × ¼	¼	7	3/16	5
2½ × 2 × ¼	5/16	7	3/16	5
1¼ × 1¼ × ¼	¼	6	3/16	4
1 × 1 × ¼	¼	6	3/16	4

Member size	Vertical				
	Weld #3	L_3	Weld #4	L_4	Weld #5
1¾ × 1¼ × ¼	¼	4	3/16	4	—
2½ × 1½ × ¼	5/16	5	3/16	5	—
2½ × 2 × 5/16	7/16	5	¼	5	—
2½ × 2 × 3/8	½	5	¼	5	—
2½ × 2 × ¼	7/16	5	3/16	5	
1¼ × 1¼ × ¼	3/16	5	3/16	5	

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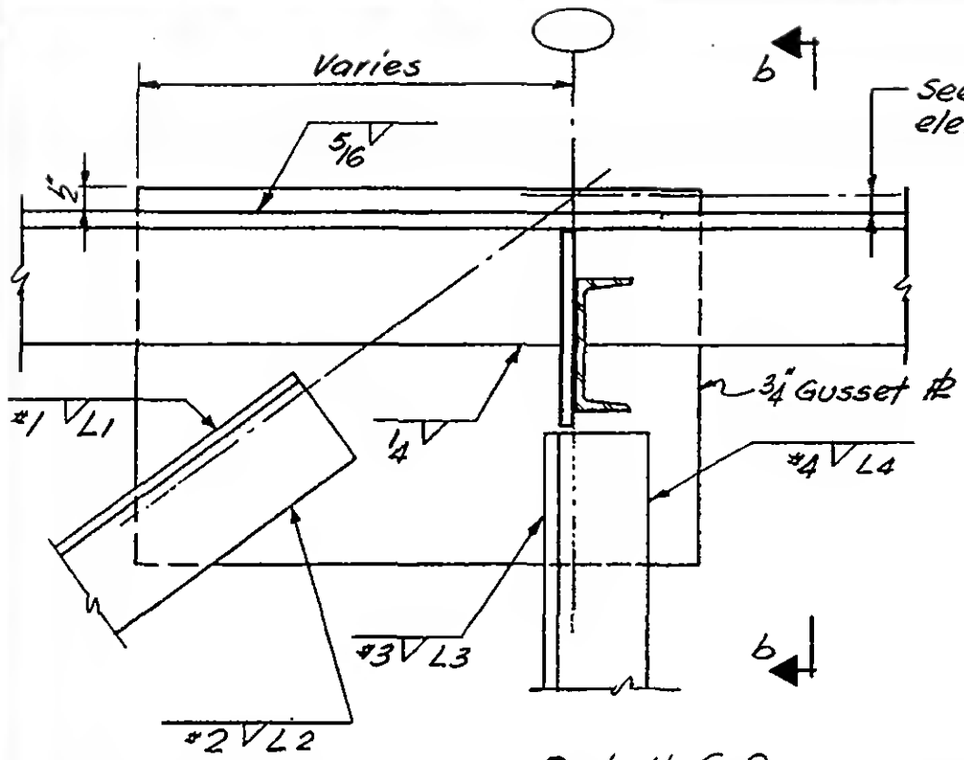
DESIGNED: K. Hwang
DRAWN: A.L. FRANQUI
REVIEWED: W. Brewer

7-B8-6.1

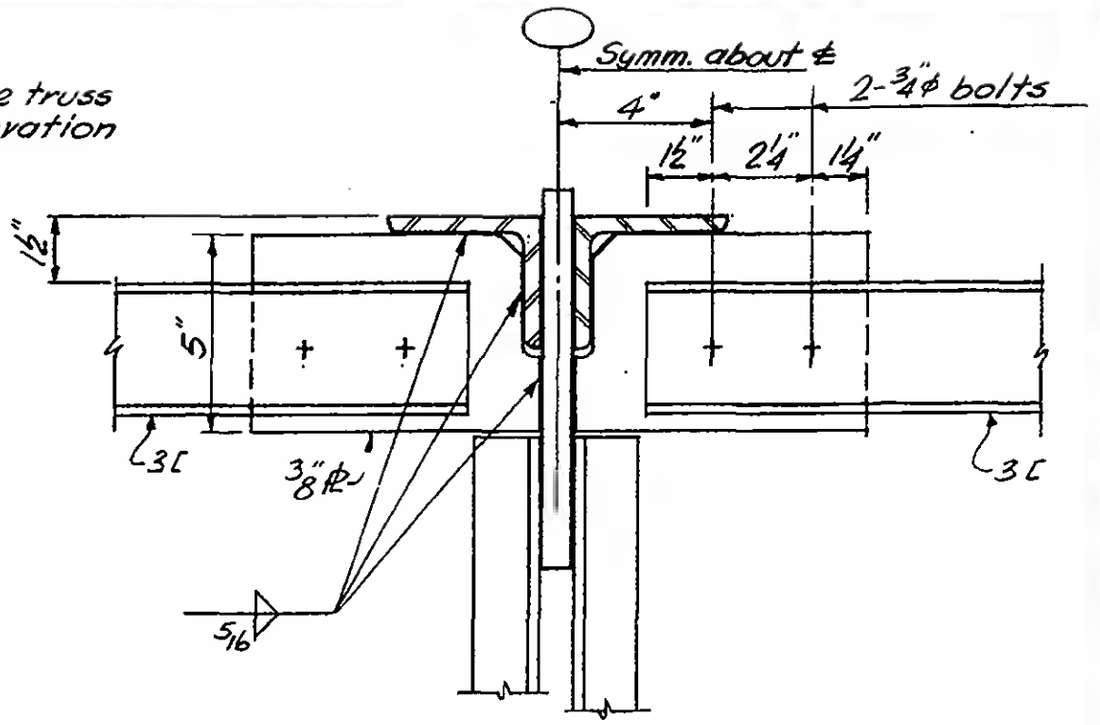
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

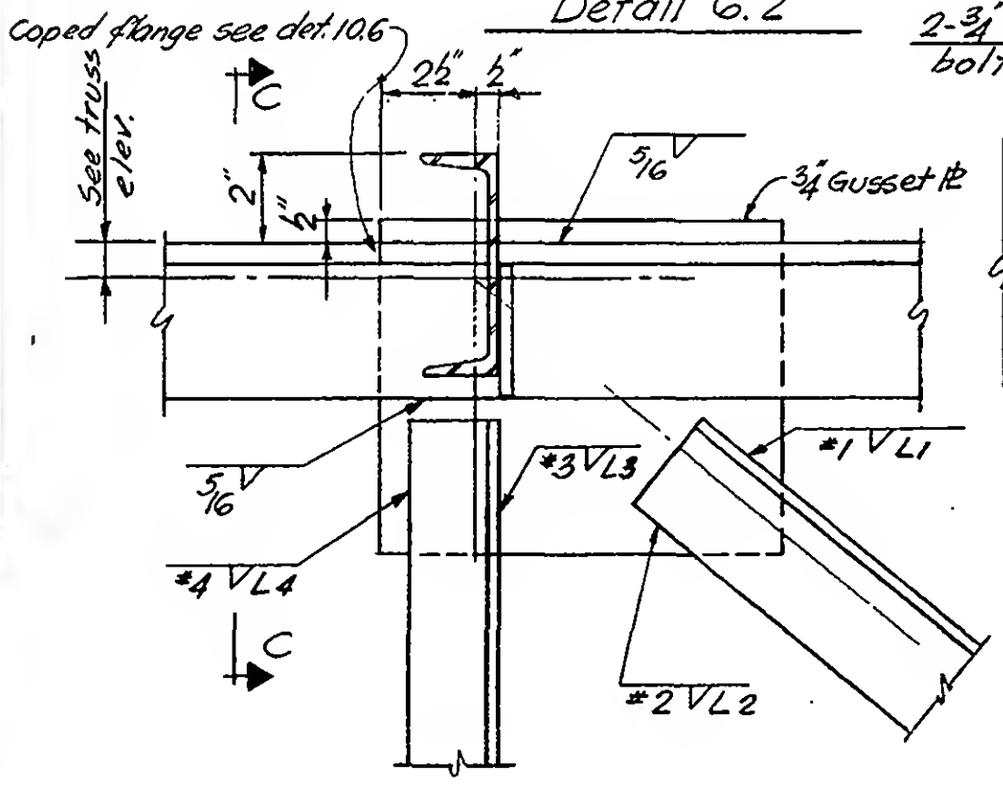
PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAIL 6.2 & 6.3 | DATE 3-19-69

REVISIONS

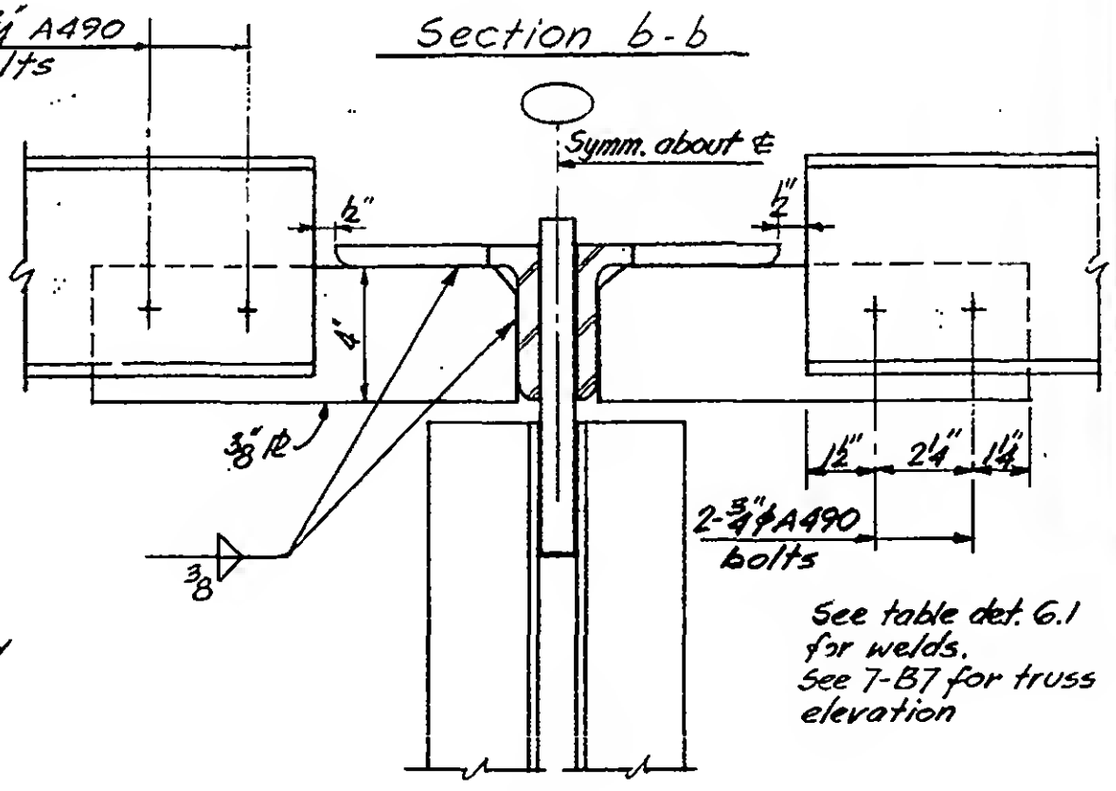


Detail 6.2





Detail 6.3



Section b-b

See table det. 6.1 for welds.
See 7-B7 for truss elevation

Section c-c

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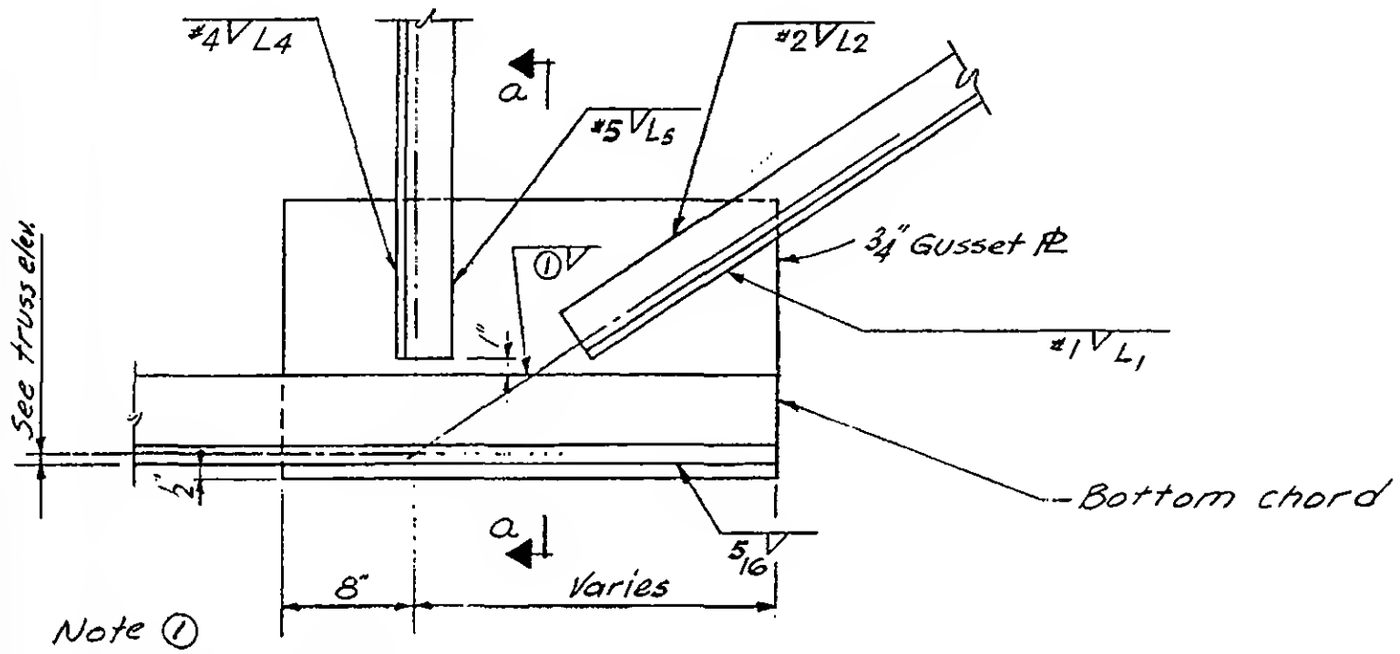
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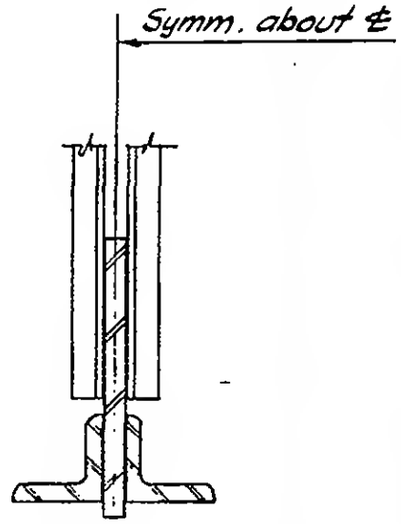
7-B8-6.2

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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 7.1 7.3 7.5 | DATE: 3-19-69

REVISIONS





Section a-a

Note ①
1/4" for 7r ≤ to 3/4" thick
5/8" for 7r > 3/4" thick
See 7-B7 for truss elevation.

Member size	Diagonal				Detail
	Weld #1	L_1	Weld #2	L_2	
1¼×1¼×¼	¼	6	3/16	4	7.5
1¾×1¾×¼	5/16	6	3/16	4	7.3 & 7.5
2½×1½×5/16	3/8	6	¼	5	7.3
2½×2×¼	3/8	6	3/16	5	7.1
2½×2×5/16	3/8	7	¼	5	7.1
4×3½×½	11/16	10	7/16	8	7.6

Member size	Vertical				Detail
	Weld #4	L_4	Weld #5	L_5	
1¼×1¼×¼	3/16	5	3/16	5	7.5
1¾×1¼×¼	¼	4	3/16	4	7.1 & 7.5
2½×1½×¼	5/16	5	3/16	5	7.1
2½×2×¼	3/8	5	3/16	5	7.3

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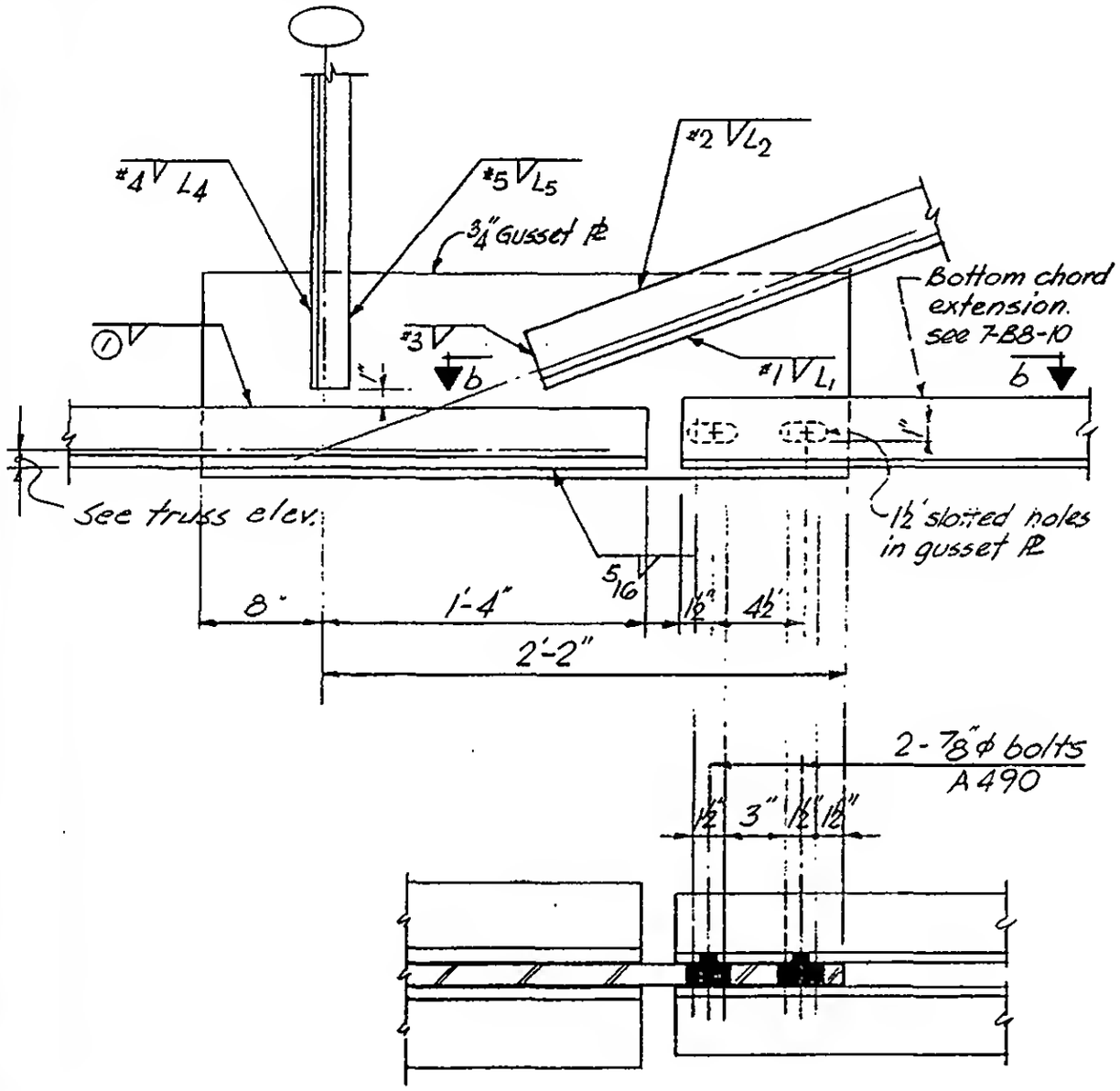
DESIGNED K. Hwang
DRAWN A.L. FRANQUI
REVIEWED W. Brewer

7-B8-7.1

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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 7.2 | DATE: 3-19-69

REVISIONS



Section b-b

See 7-B7, for truss elev.

Member size	Diagonal				
	Weld #1	L1	Weld #2	L2	Weld #3
2 1/2 × 2 × 5/16	3/8	7	1/4	5	—
2 1/2 × 2 × 3/8	5/16	9	1/4	6	—
3 × 2 × 3/8	3/8	9	5/16	6	—
3 × 2 × 1/2	3/8	9	5/16	6	7/16
4 × 3 × 3/8	7/16	9	5/16	6	5/16

Member size	Vertical			
	Weld #4	L4	Weld #5	L5
1 1/4 × 1 1/4 × 1/4	3/16	5	3/16	5
2 1/2 × 1 1/2 × 1/4	5/16	5	3/16	5
2 1/2 × 2 × 5/16	7/16	5	1/4	5
2 1/2 × 2 × 3/8	1/2	5	1/4	5

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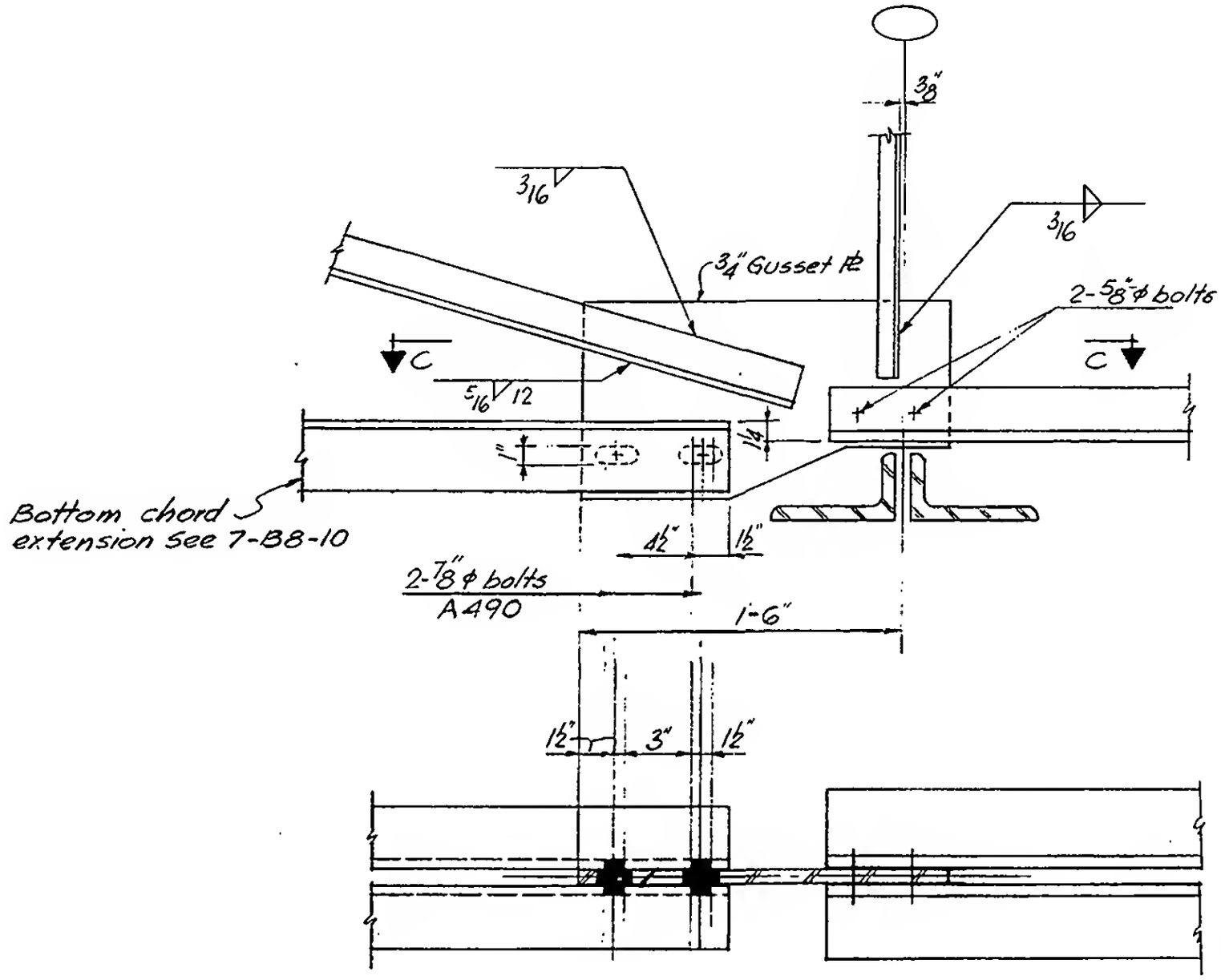
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-7.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 7.4 | DATE: 3-19-69

REVISIONS



Section C-C

See 7-B7 for truss elevation.

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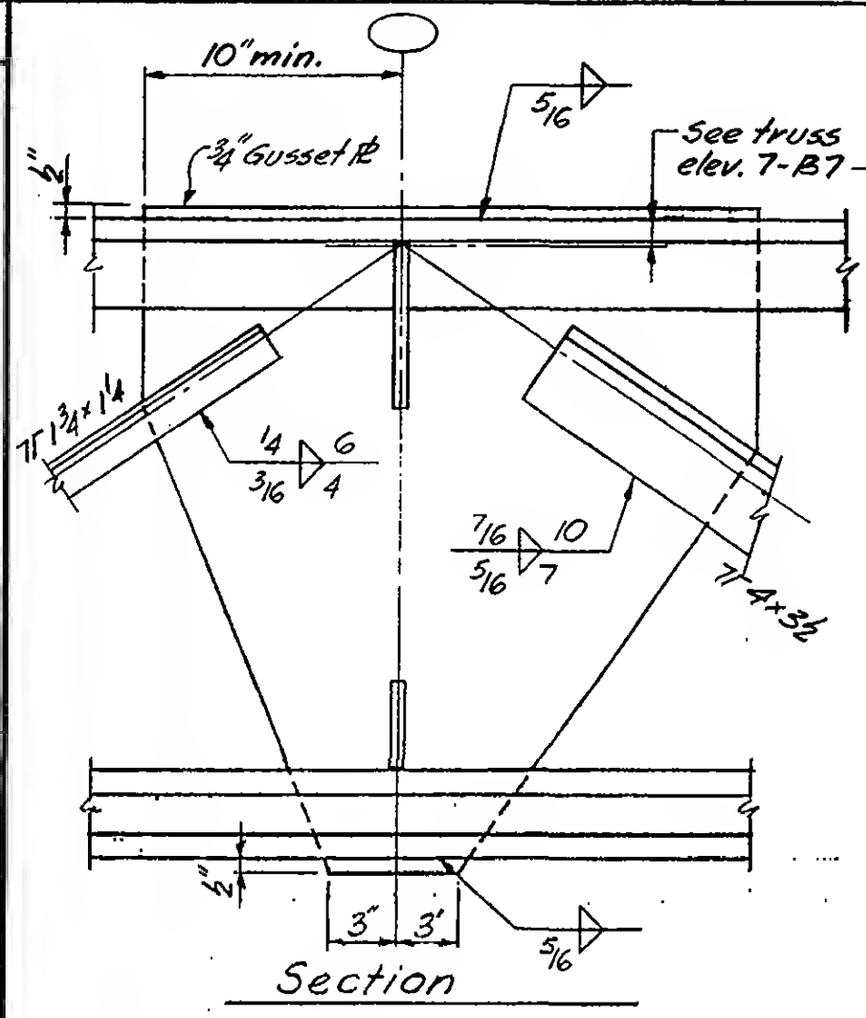
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7-B8-7.3

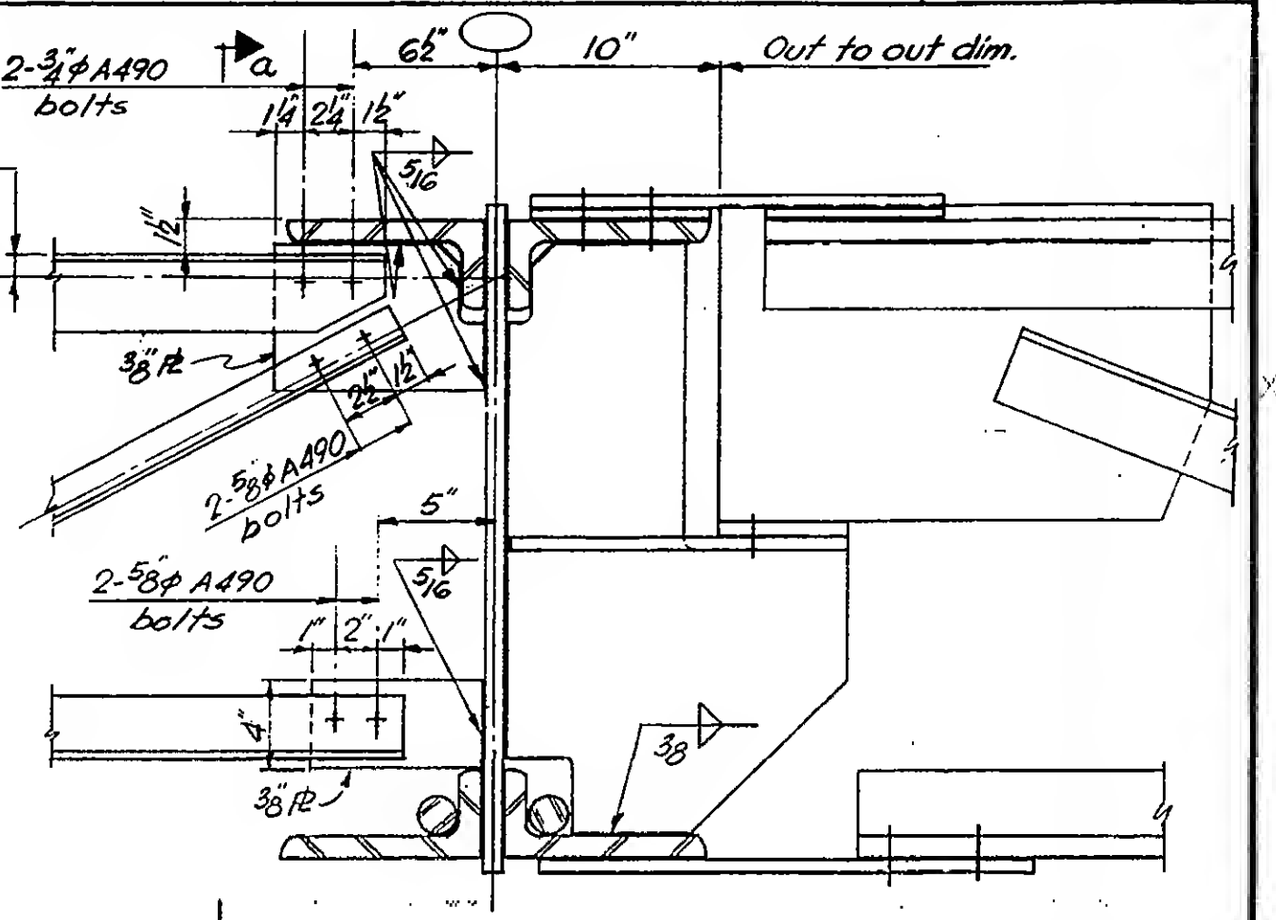
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.1 | DATE: 3-19-69

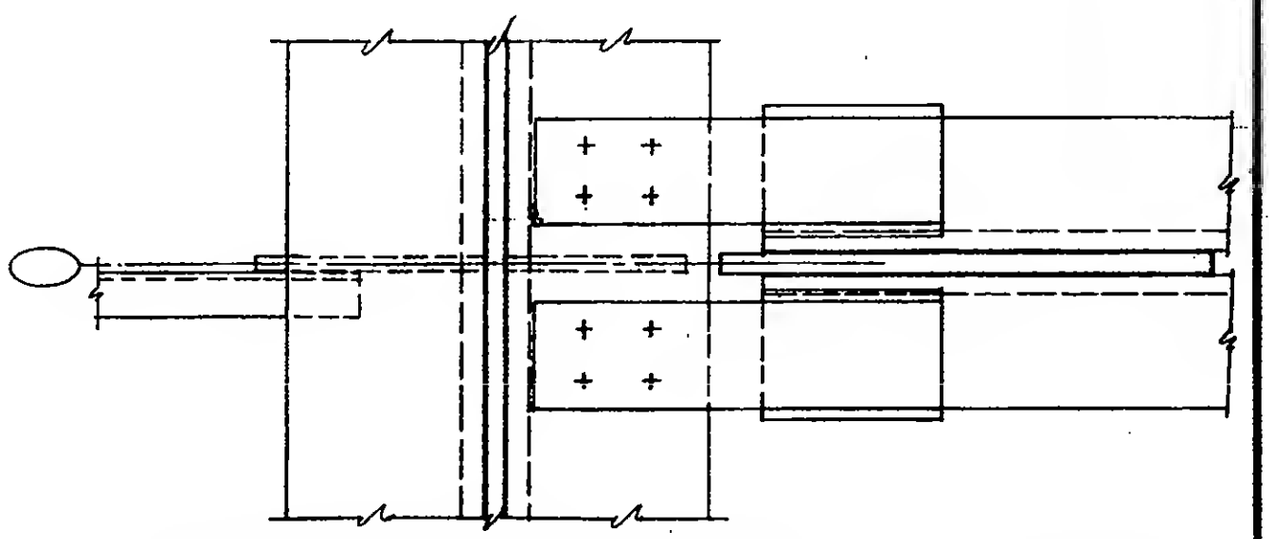
REVISIONS



Section



DETAIL 8.1 same as Section A-A (7-B8-8.10) except as shown



Plan same as section B-B (7-B8-8.10) except as shown

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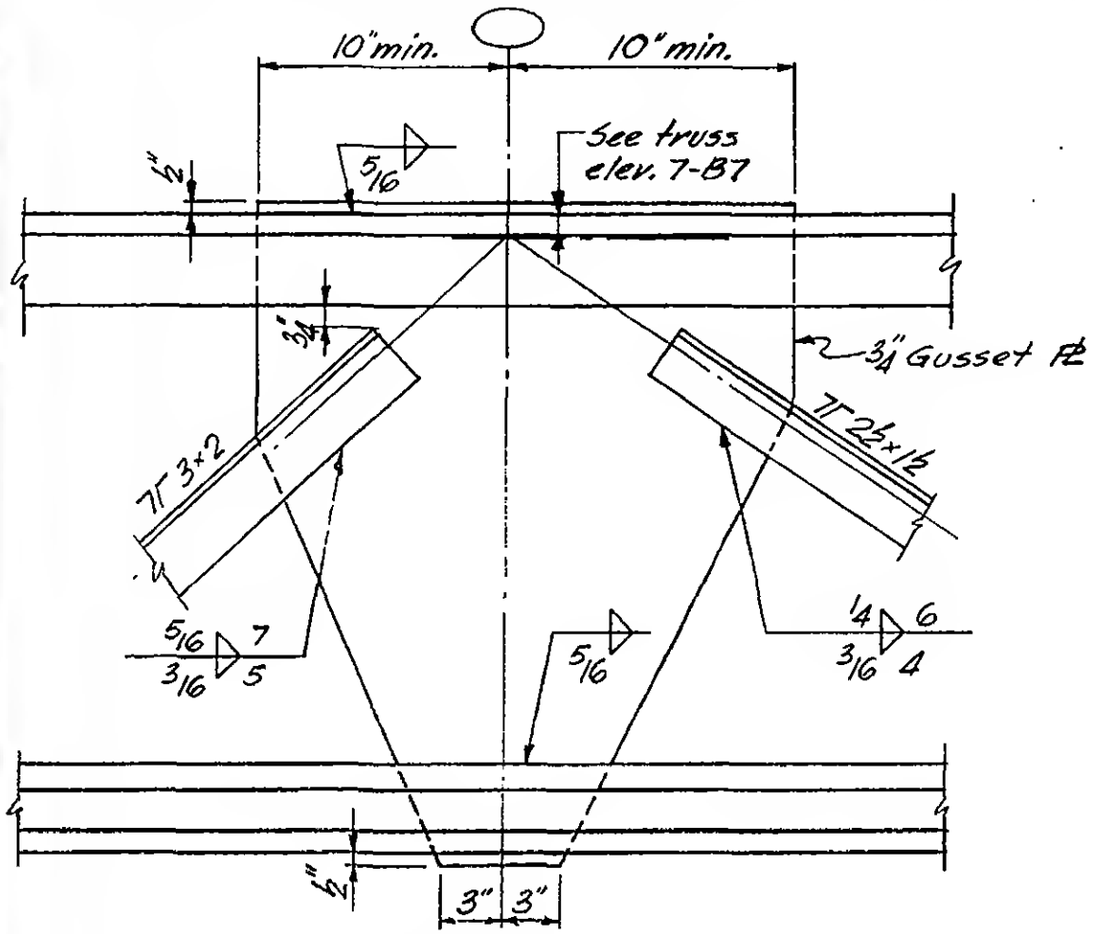
REVIEWED W. Brewer

7-B8-8.1

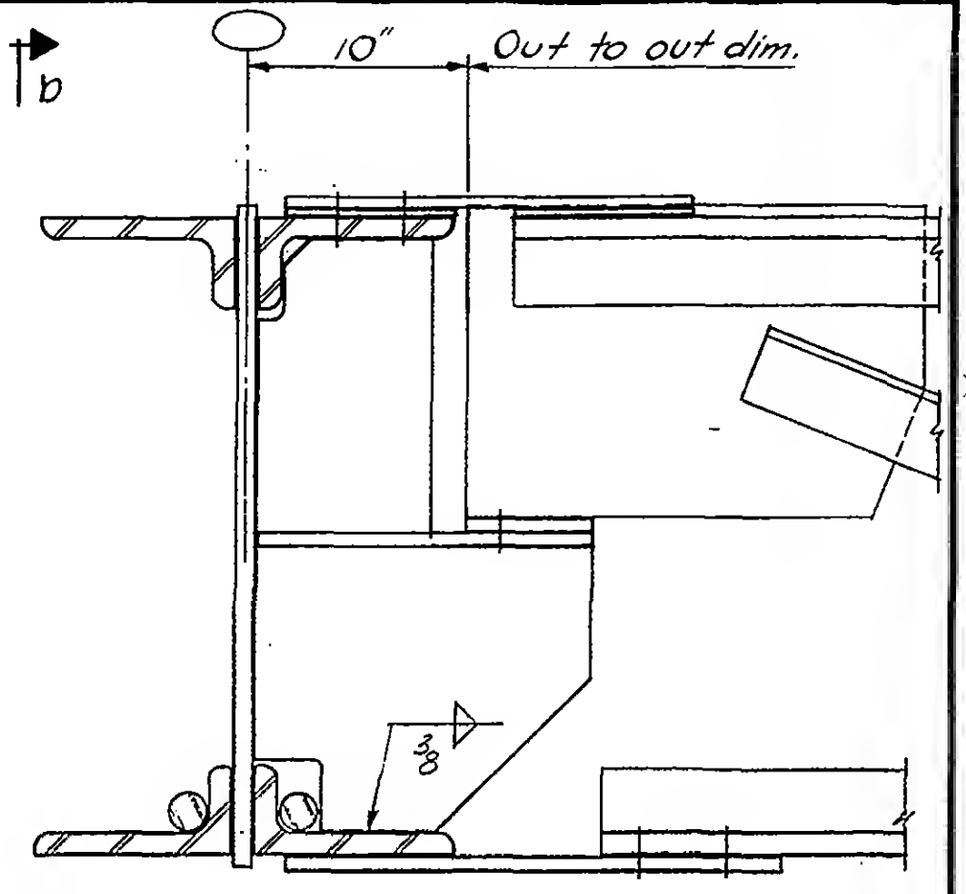
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PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.2 | DATE: 3-19-69

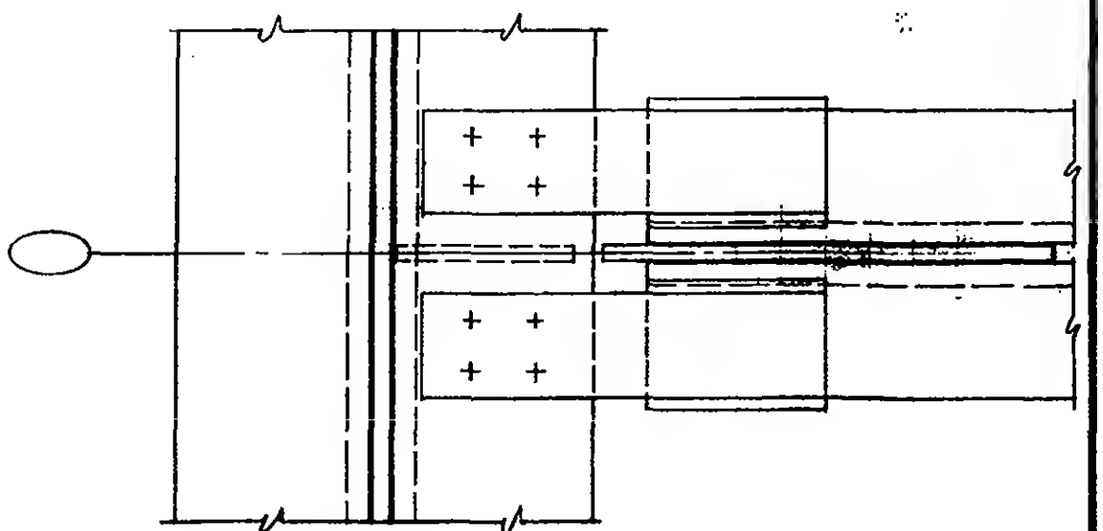
REVISIONS



Section b-b



DETAIL 8.2 same as Section A-A (7-B8-8.10) except as shown



Plan same as section B-B (7-B8-8.10) except as shown

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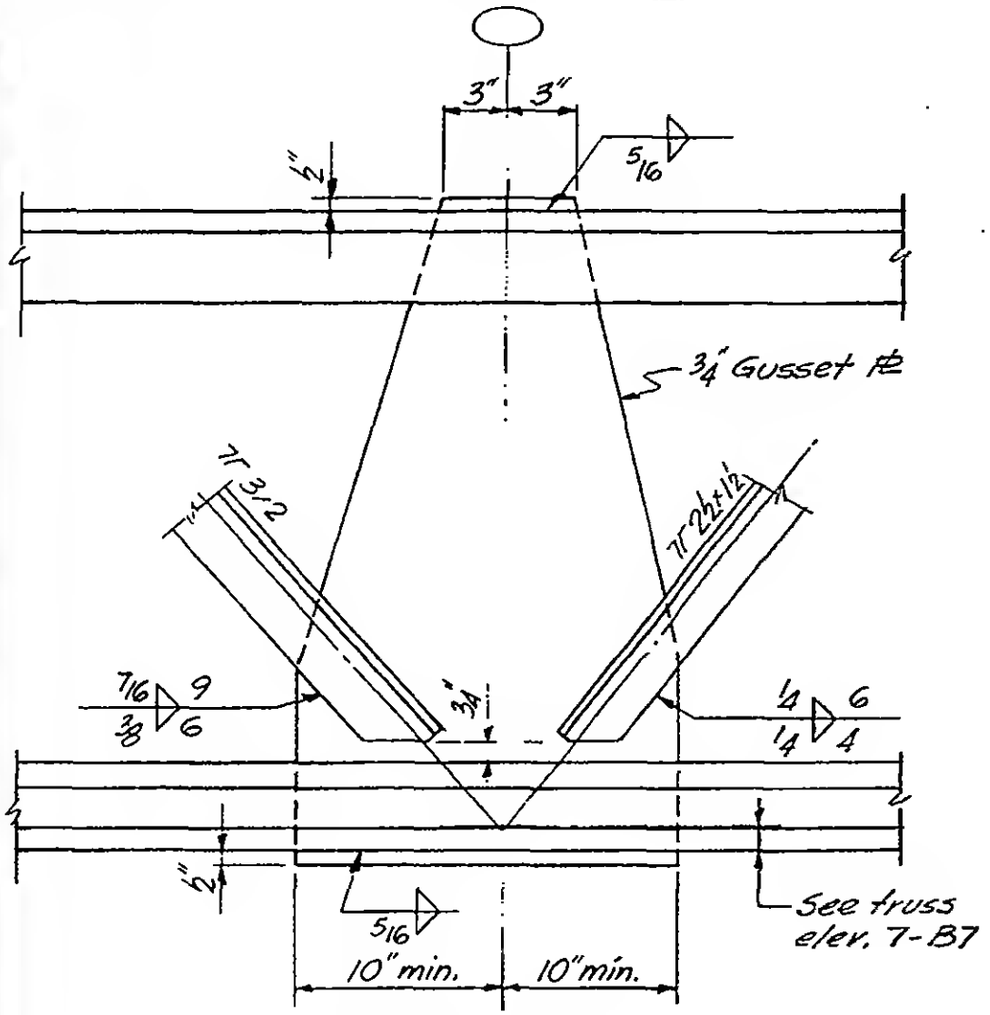
REVIEWED W. Brewer

7-B8-8.2

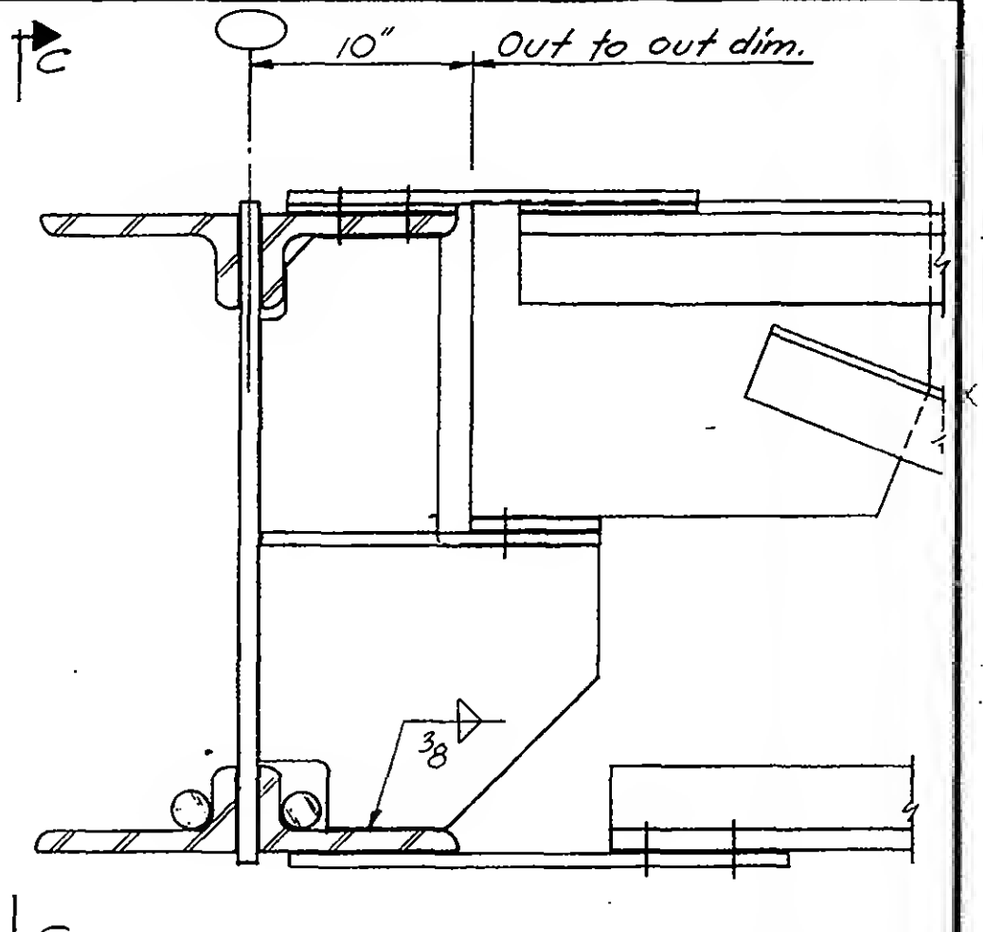
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.3 | DATE: 3-19-69

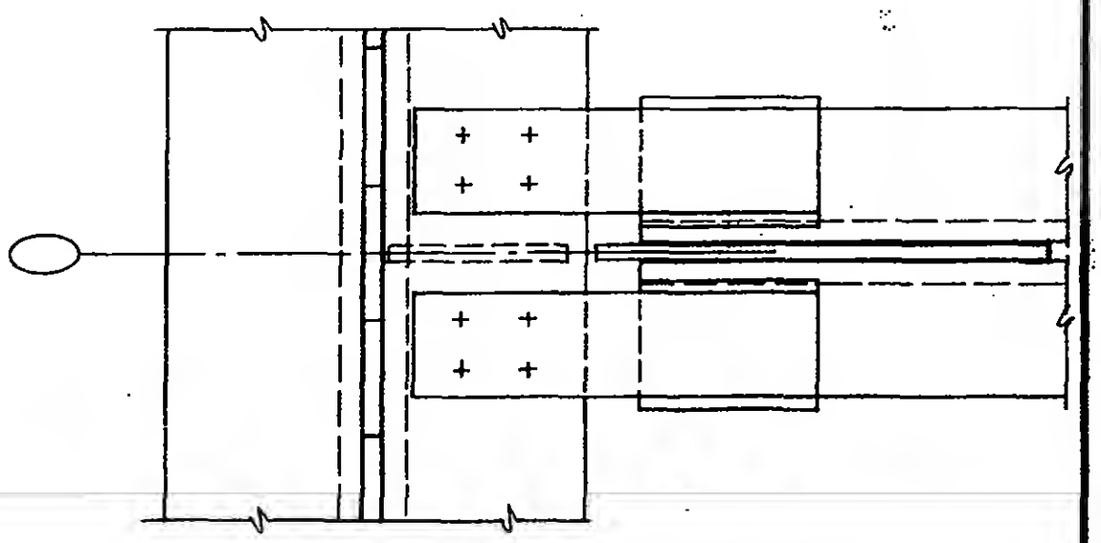
REVISIONS



Section c-c



DETAIL 8.3 same as Section A-A (7-B8-8.10) except as shown



Plan same as section B-B (7-B8-8.10) except as shown

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

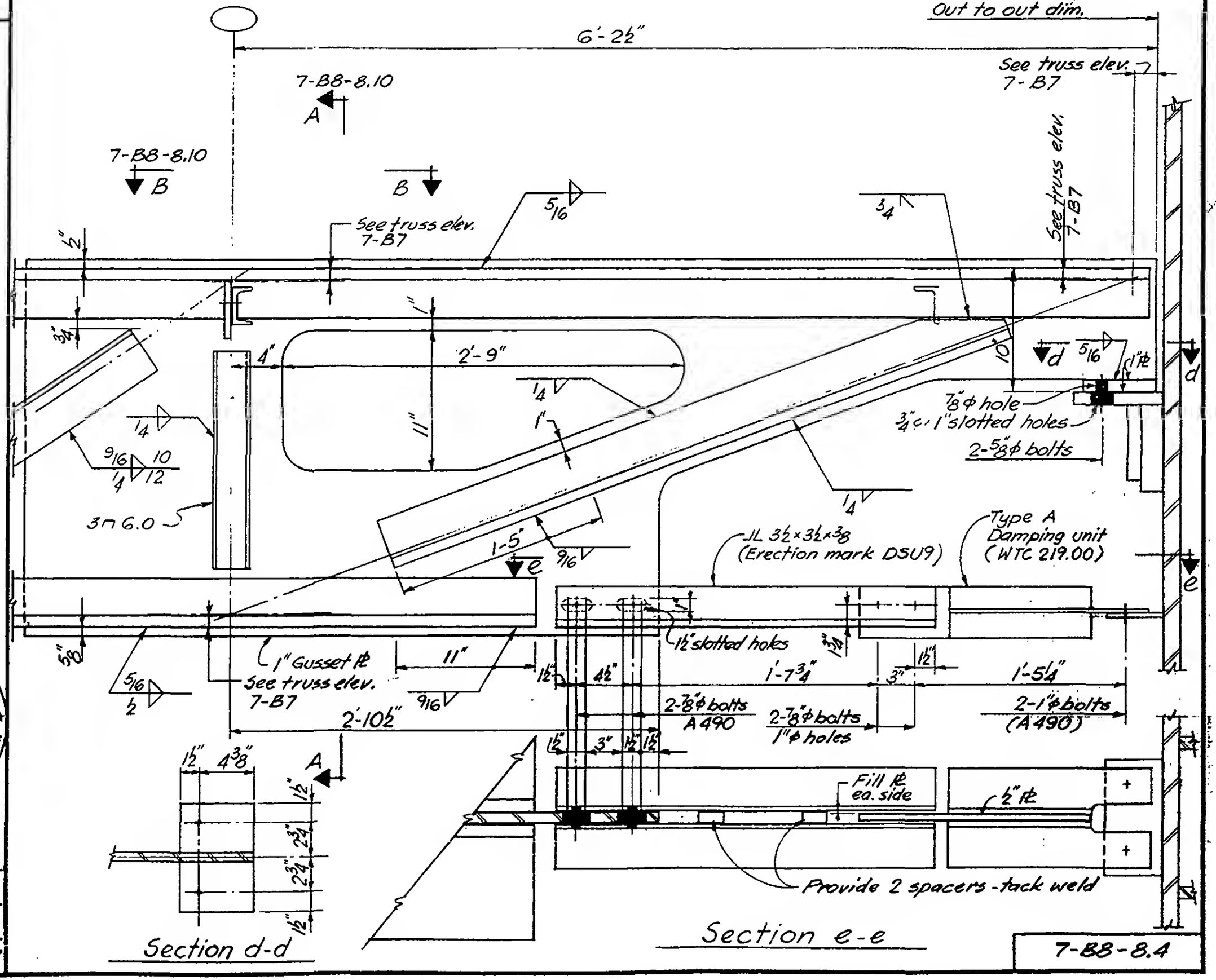
DESIGNED: K. Hwang
DRAWN: J. Gricius
REVIEWED: W. Brewer

7-B8-8.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.4 | DATE: 3-19-69

REVISIONS



LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

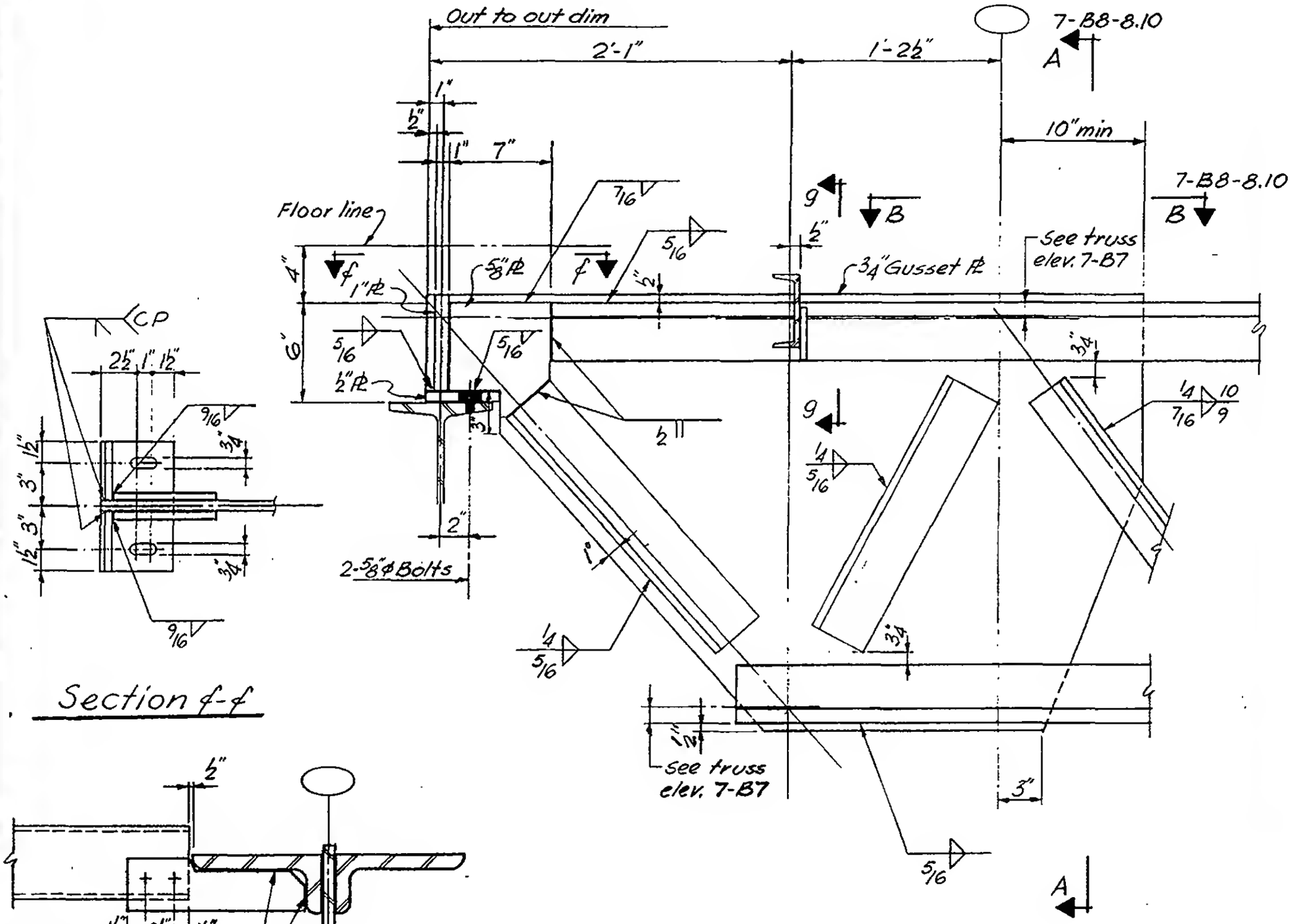
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-8.4

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.5 | DATE: 3-19-69

REVISIONS



Section f-f

Section 9-9

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34980
UNIVERSITY OF THE STATE OF NEW YORK

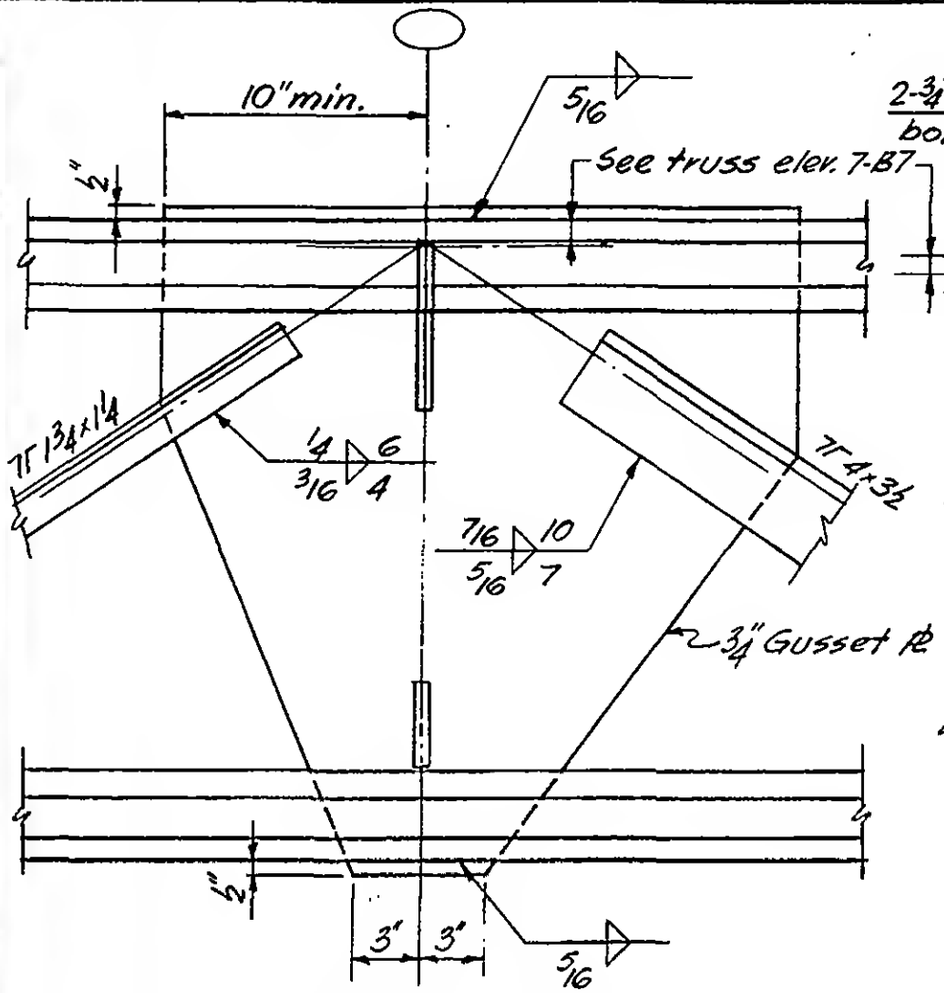
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DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-8.5

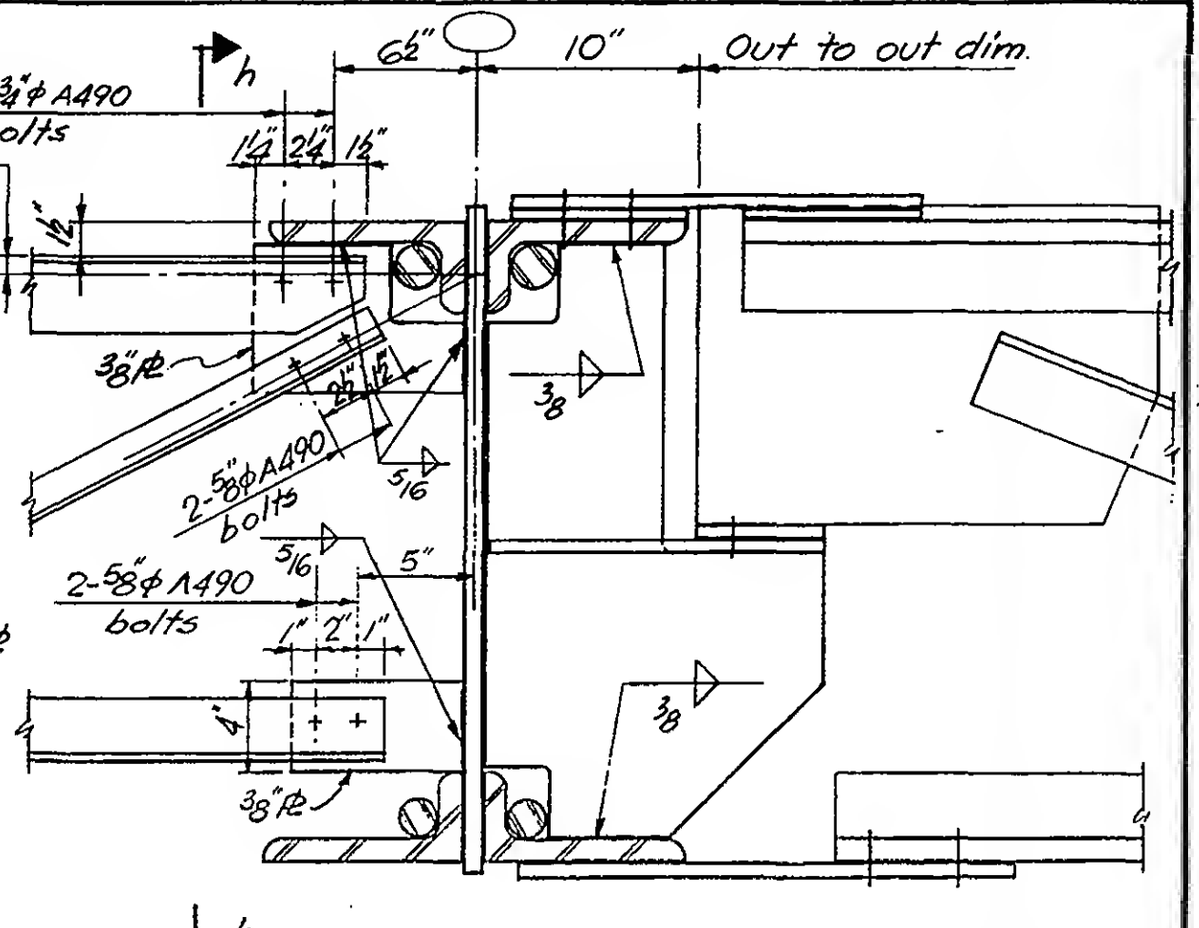
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAIL 8.6 | DATE 3-19-69

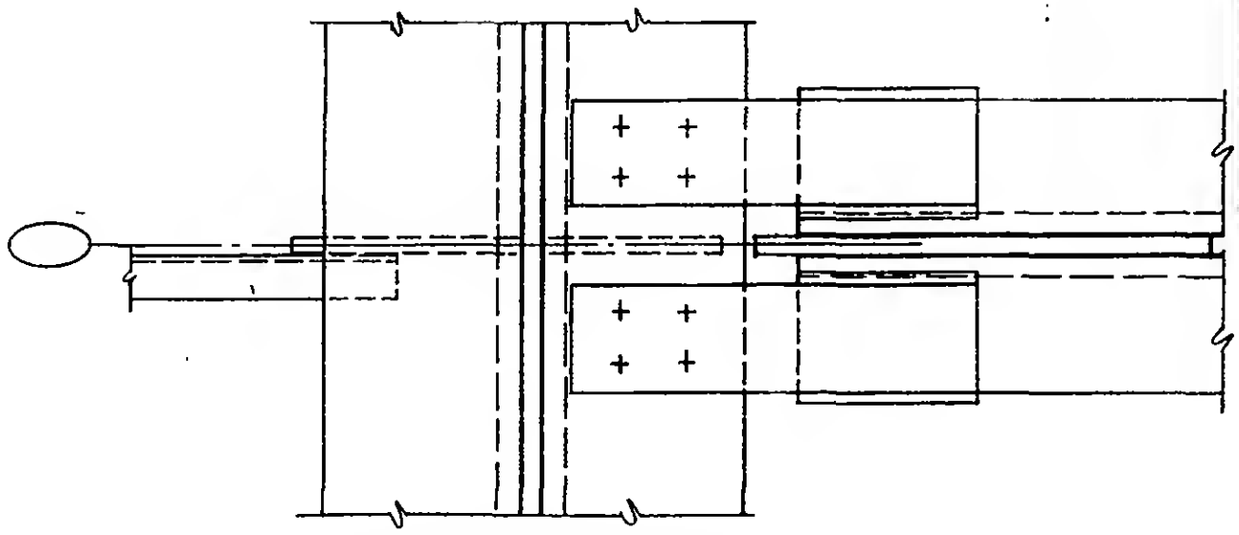
REVISIONS



Section h-h



DETAIL 8.6 same as Section A-A (7-B8-8.10) except as shown



Plan same as section B-B (7-B8-8.10) except as shown

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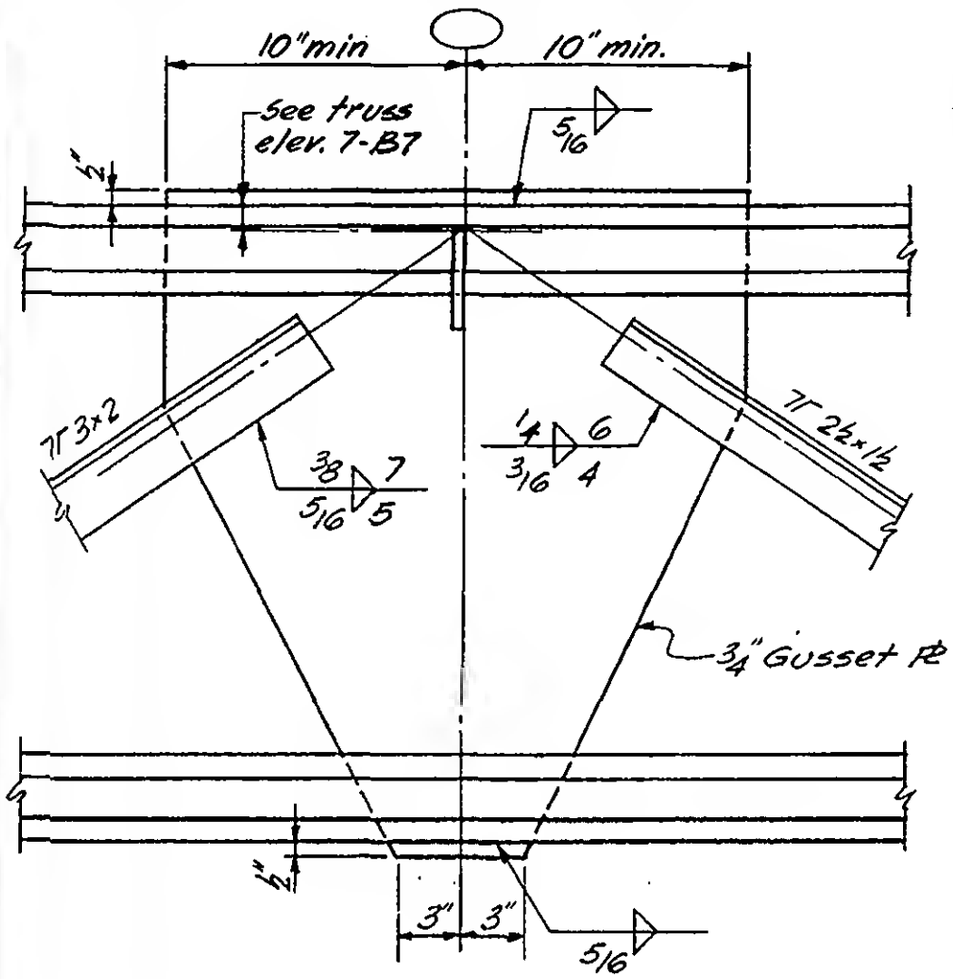
DESIGNED K. Shwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-8.6

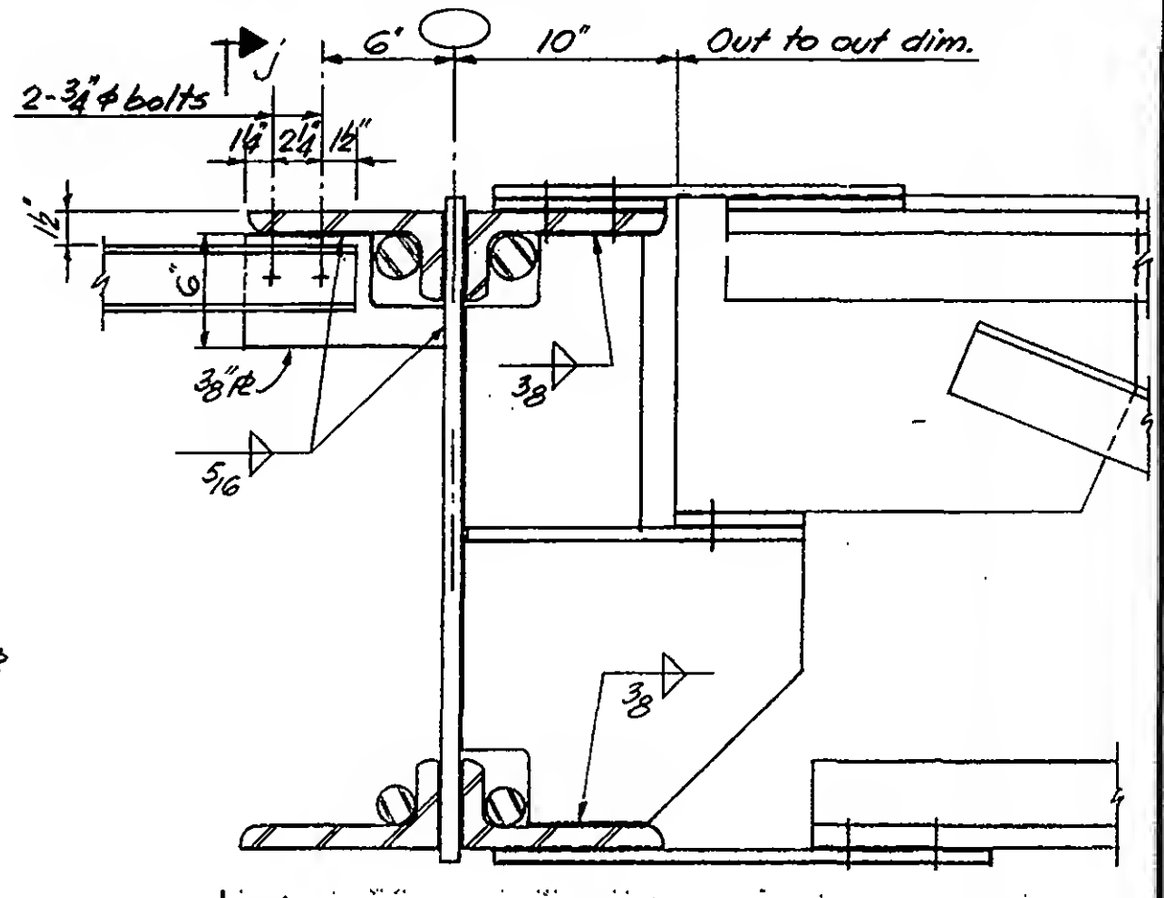
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.7 | DATE: 3-19-69

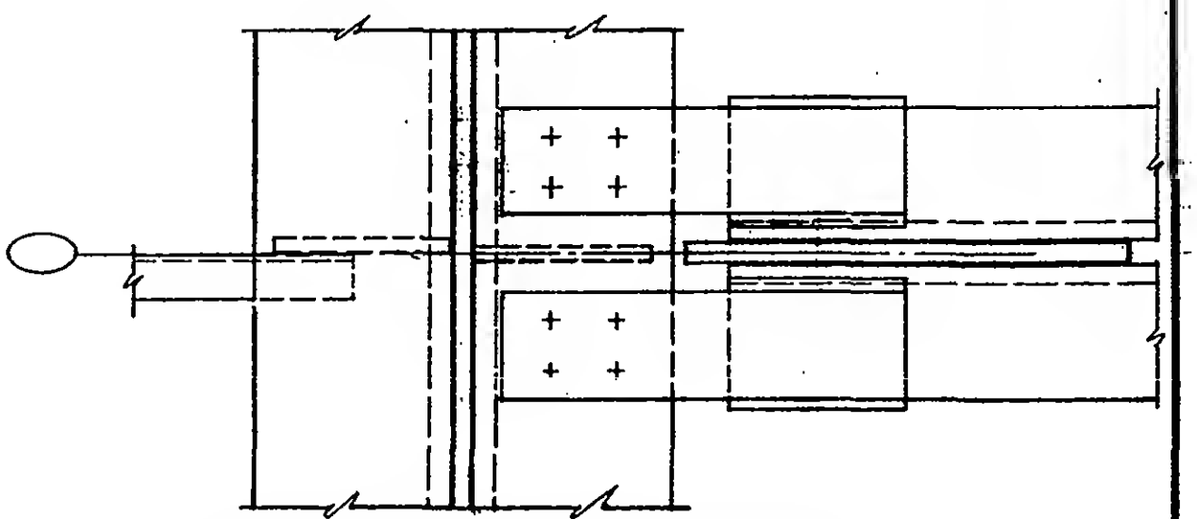
REVISIONS



Section j-j



DETAIL 8.7 same as Section A-A (7-B8-8.10) except as shown



Plan same as section B-B (7-B8-8.10) except as shown

7-B8-8.7

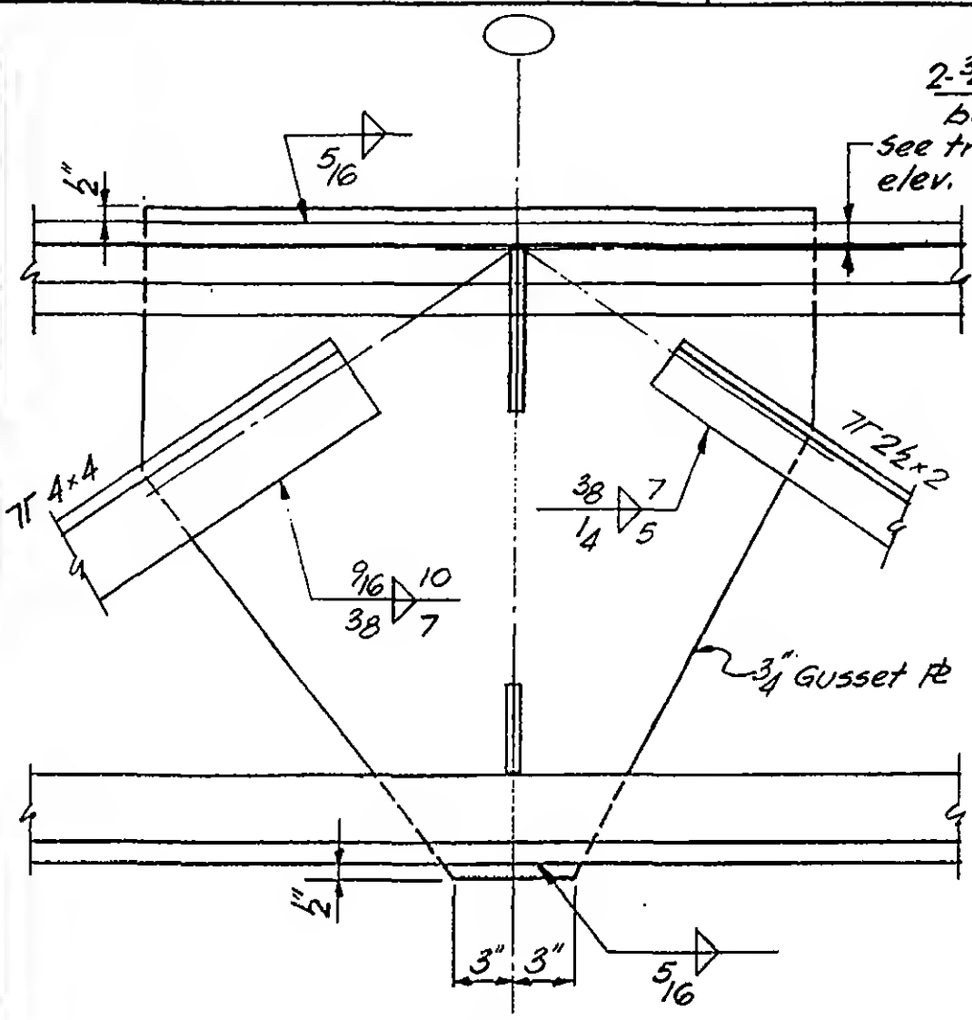
LICENSED PROFESSIONAL ENGINEER — LESLIE E ROBERTSON — No. 34960 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

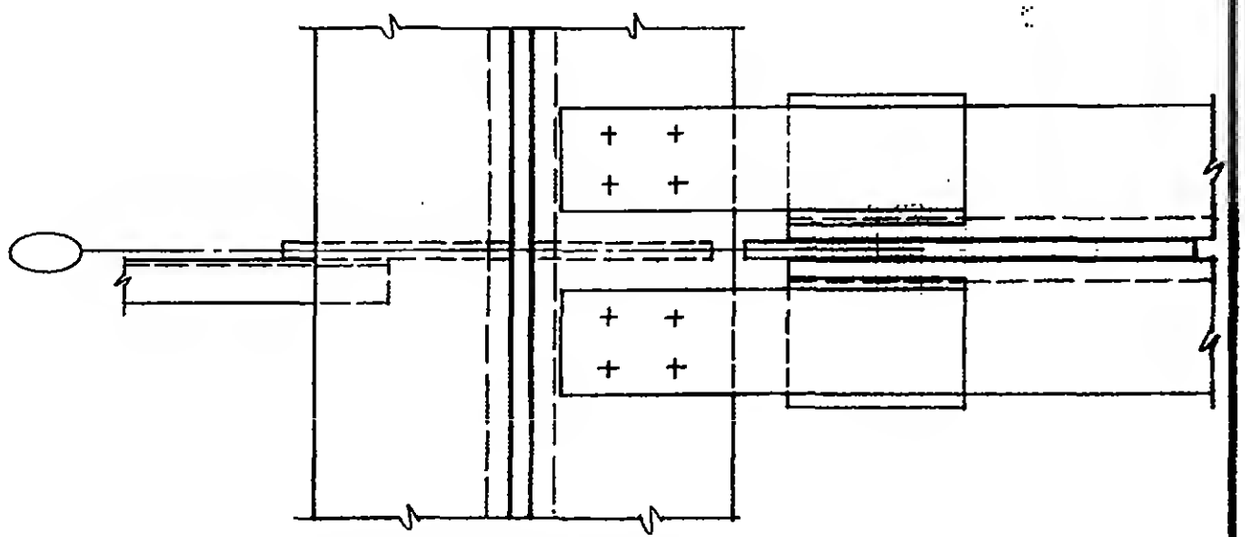
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.8 | DATE: 3-19-69

REVISIONS



Section k-k

DETAIL 8.8 same as Section A-A (7-B8-8.10) except as shown



Plan same as section B-B (7-B8-8.10) except as shown

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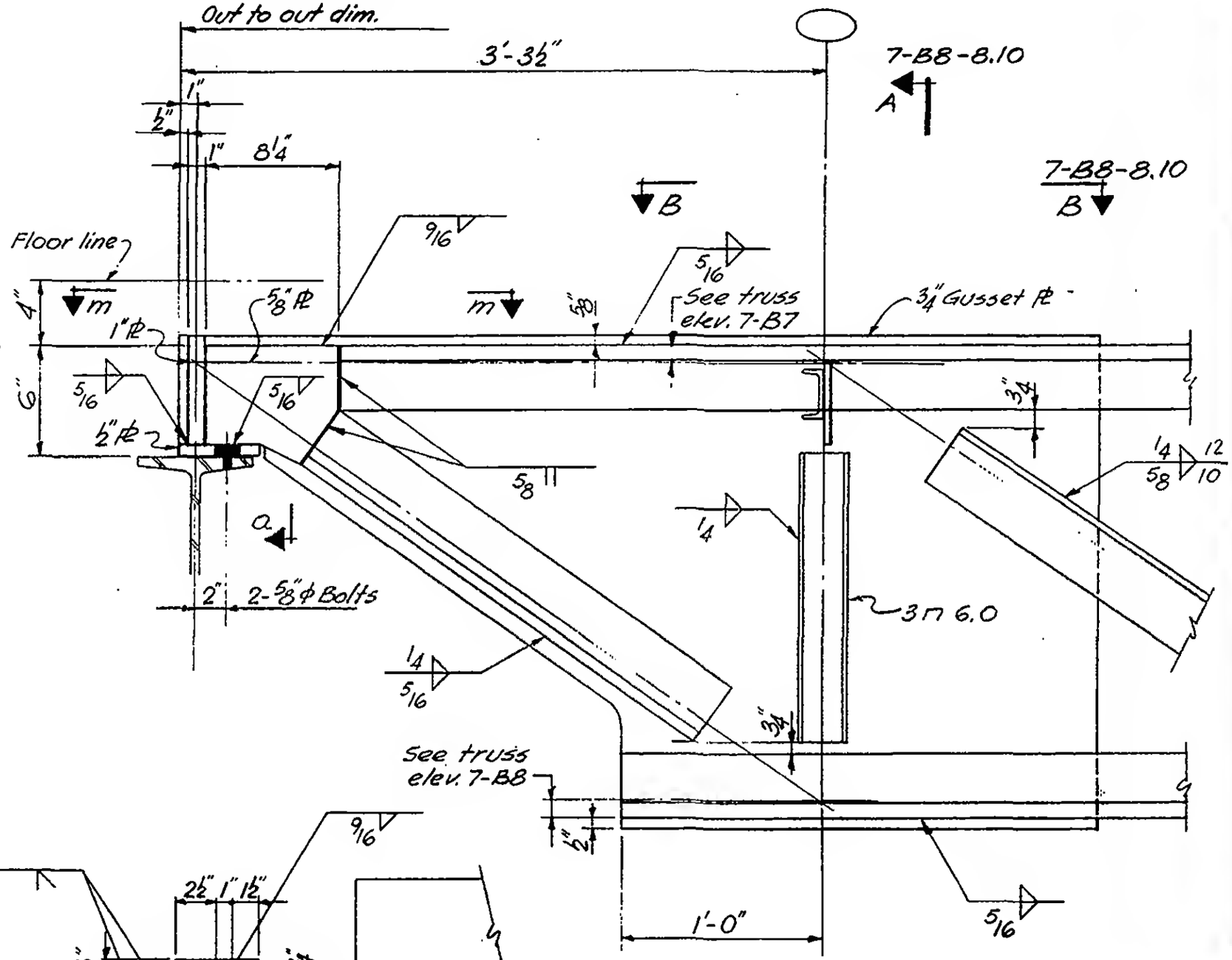
DESIGNED K. Howang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-8.8

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.9 | DATE: 3-19-69

REVISIONS



Section m-m

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LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang

DRAWN J. Gricius

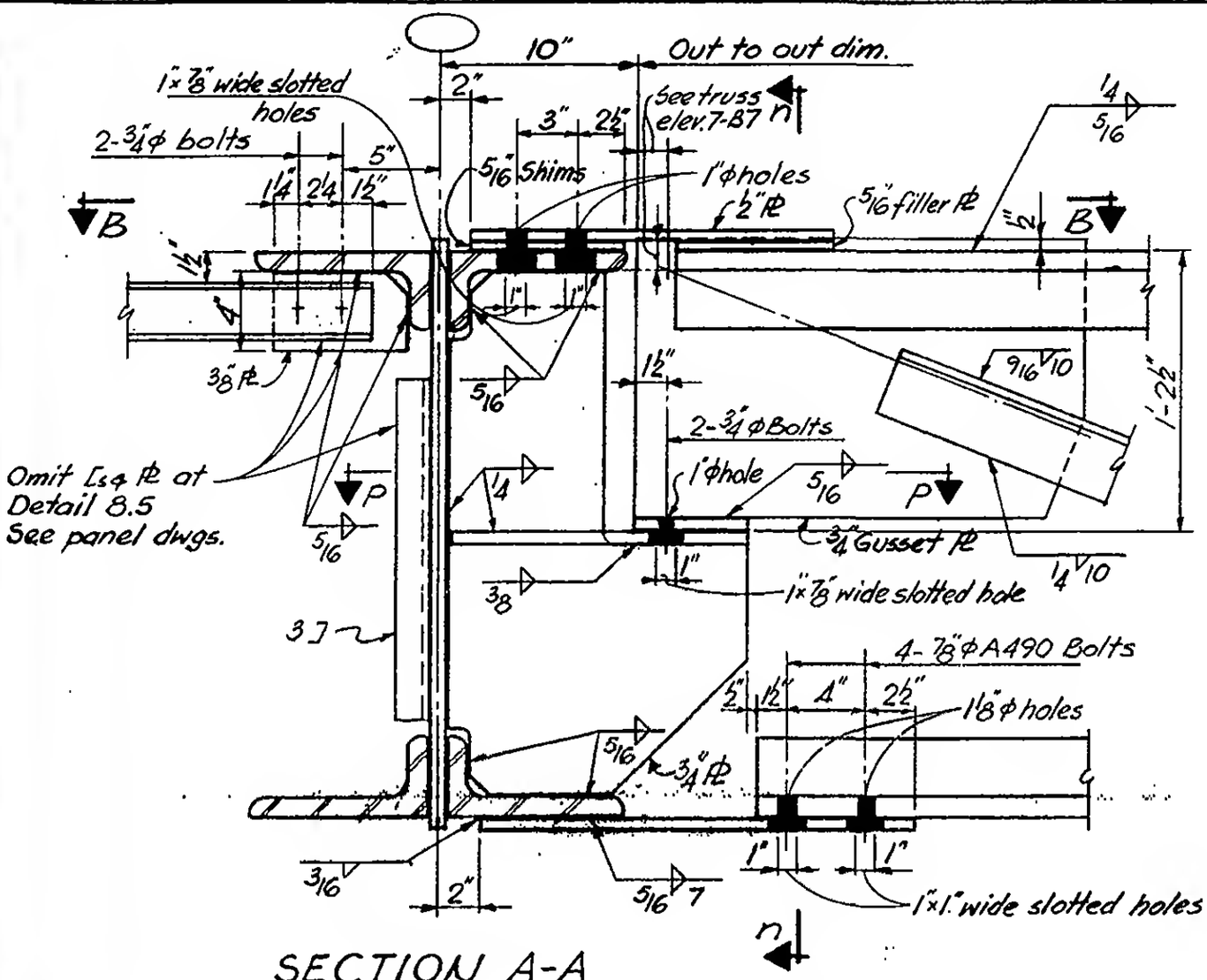
REVIEWED W. Brewer

7-B8-8.9

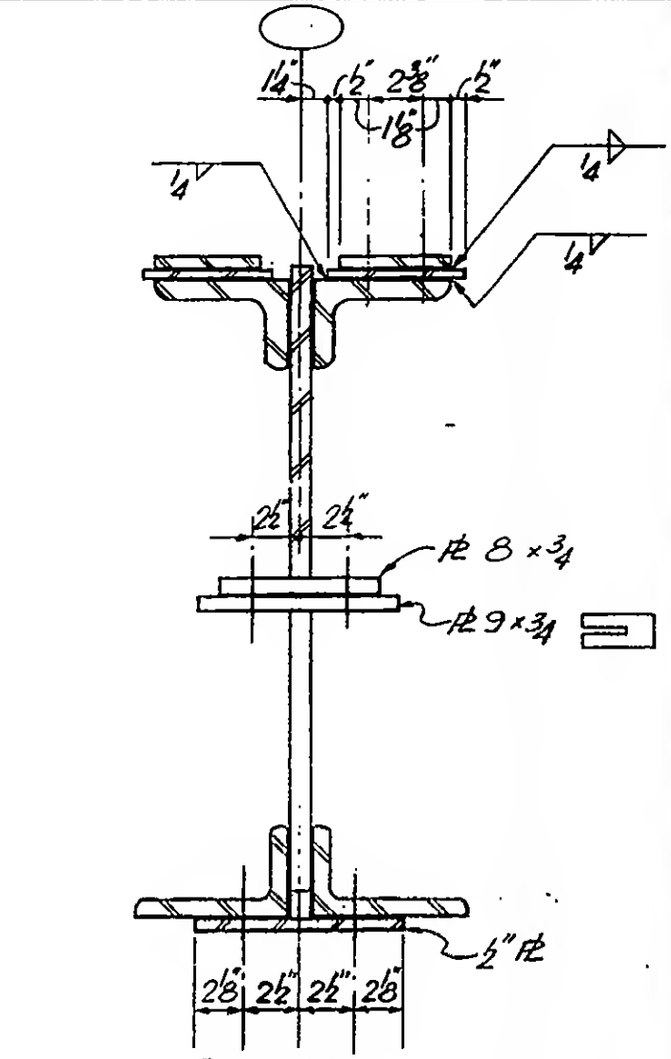
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAILS - SECTION A-A, B-B | DATE: 3-19-69

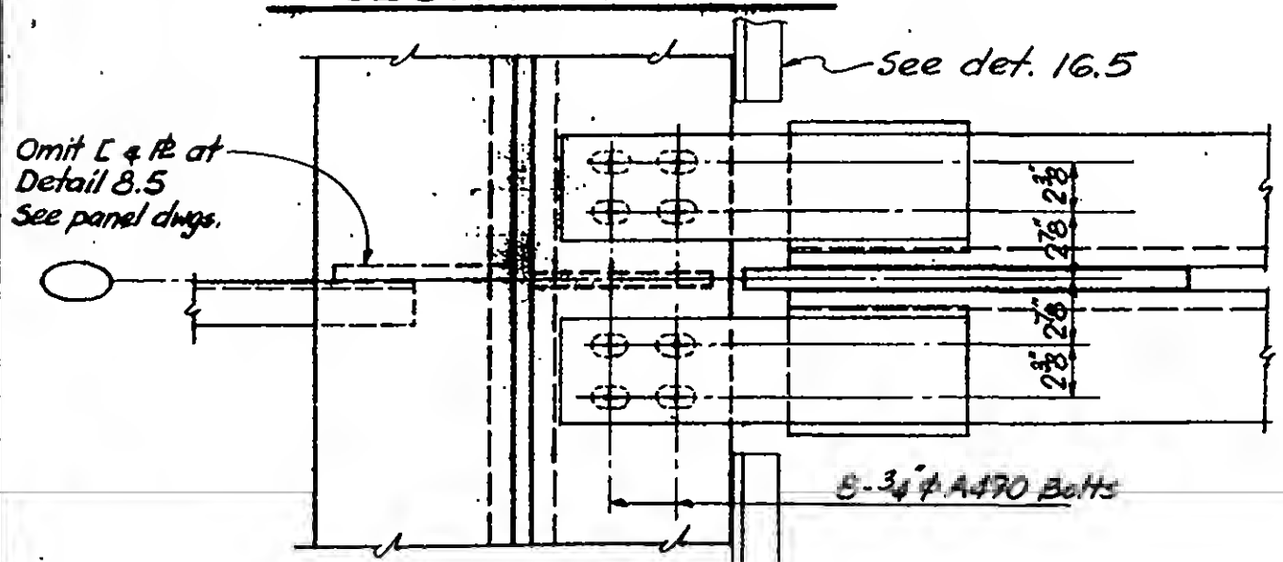
REVISIONS



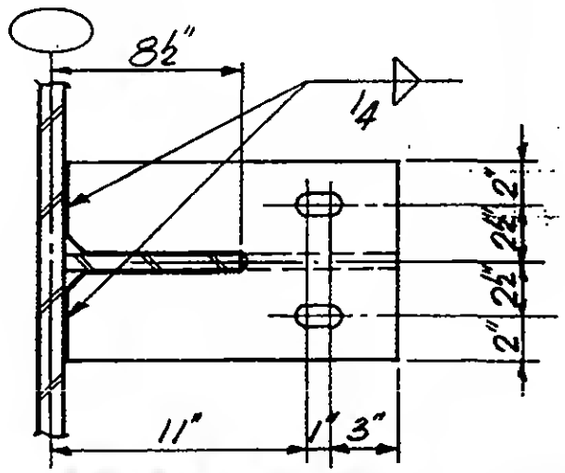
SECTION A-A



Section n-n



Section B-B



Section p-p

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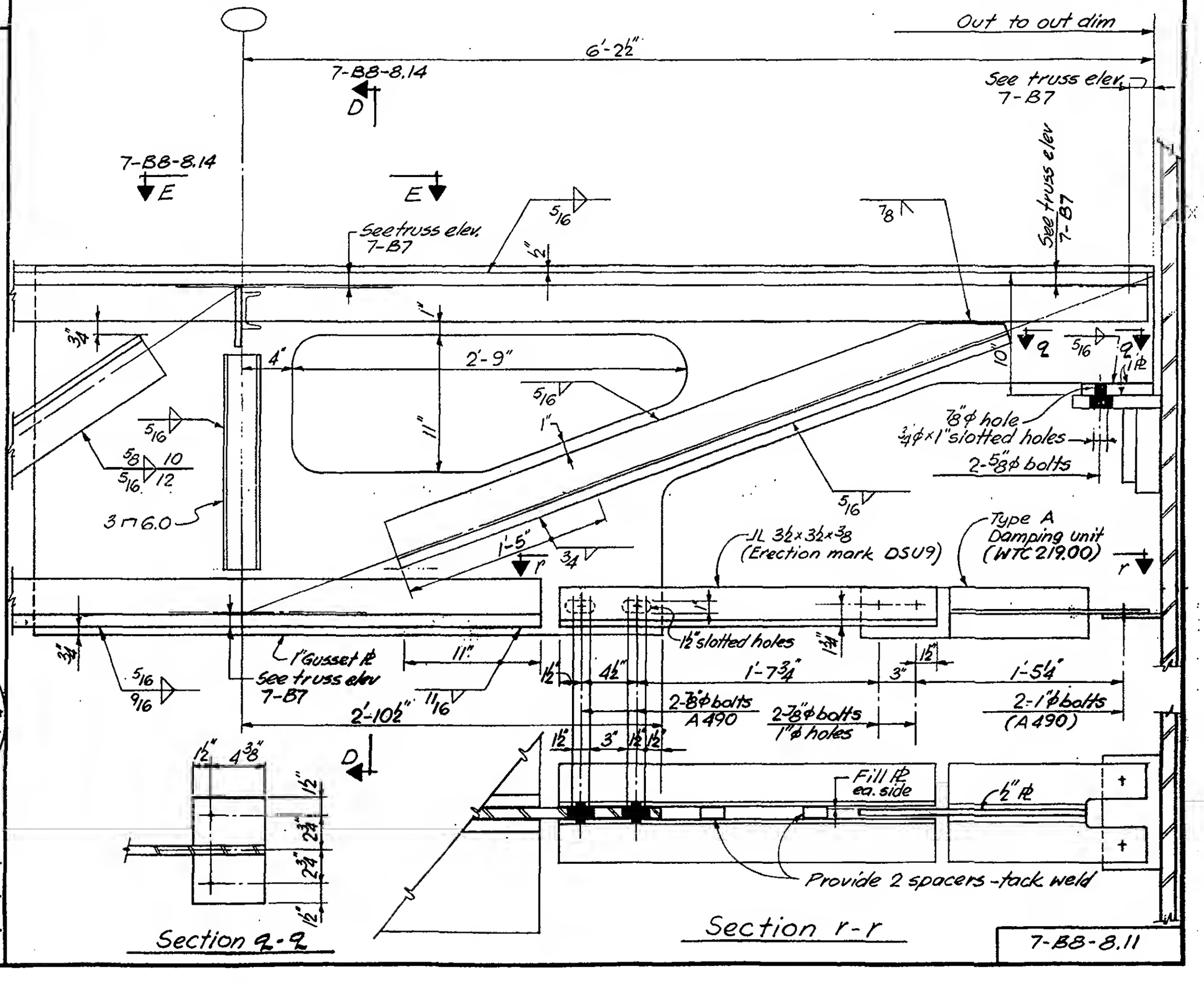
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-8.10

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8,10 | DATE: 3-19-69

REVISIONS



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DESIGNED K. Hwang

DRAWN J. Gricius

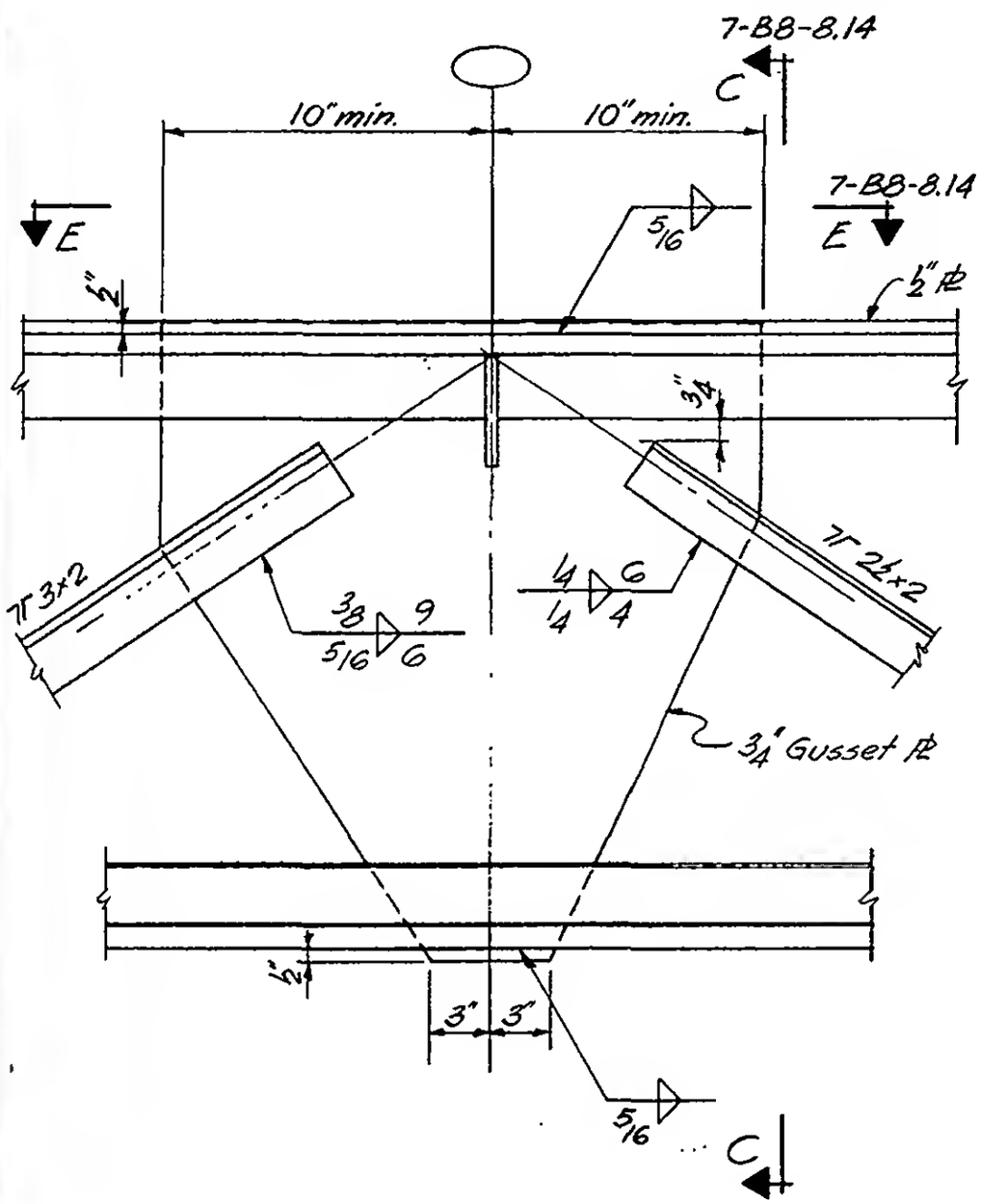
REVIEWED W. Brewer

7-B8-8.11

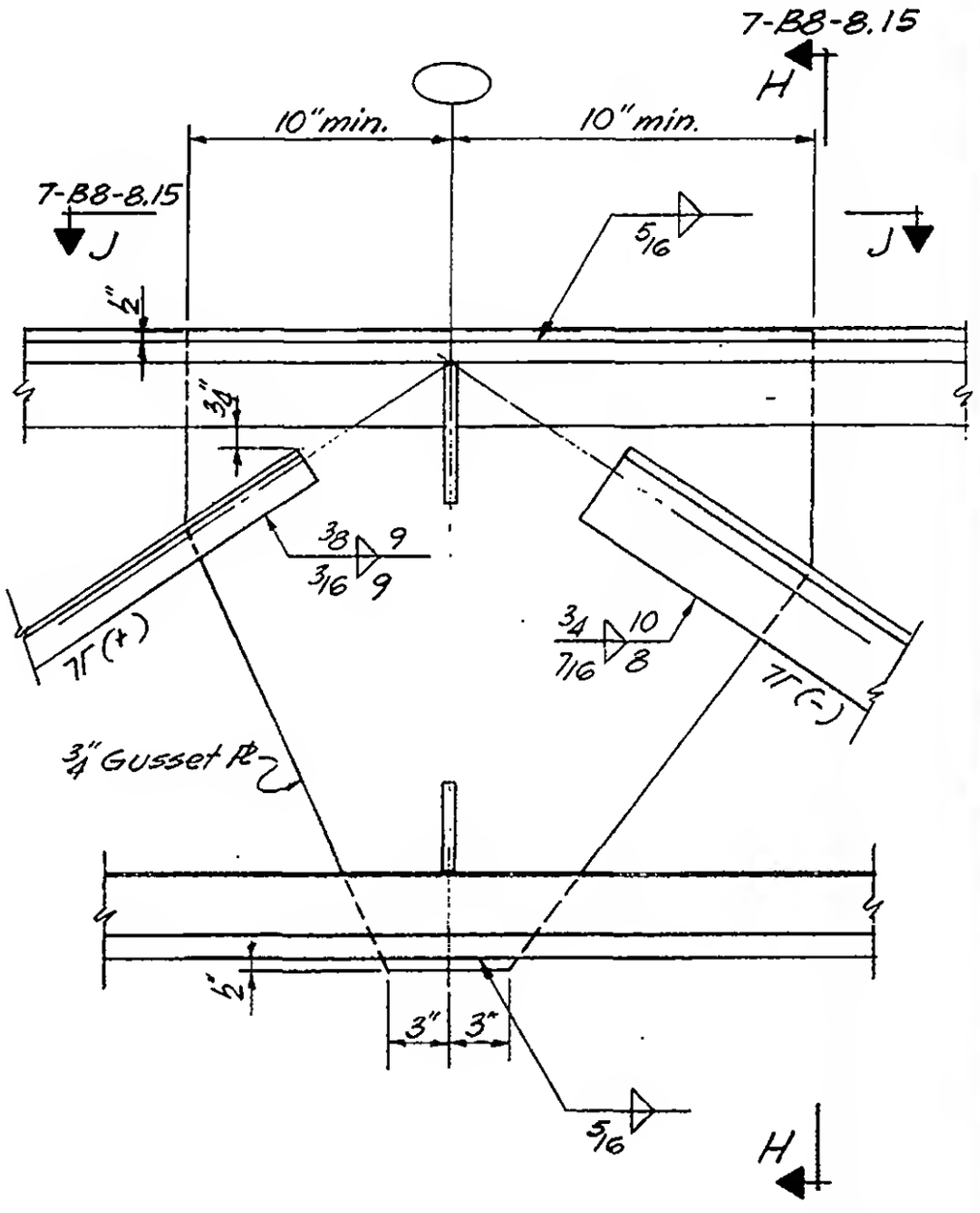
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.11 & 8.12 | DATE: 3-19-69

REVISIONS



DETAIL 8.12



DETAIL 8.11

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DESIGNED K. Hwang

DRAWN J. Gricius

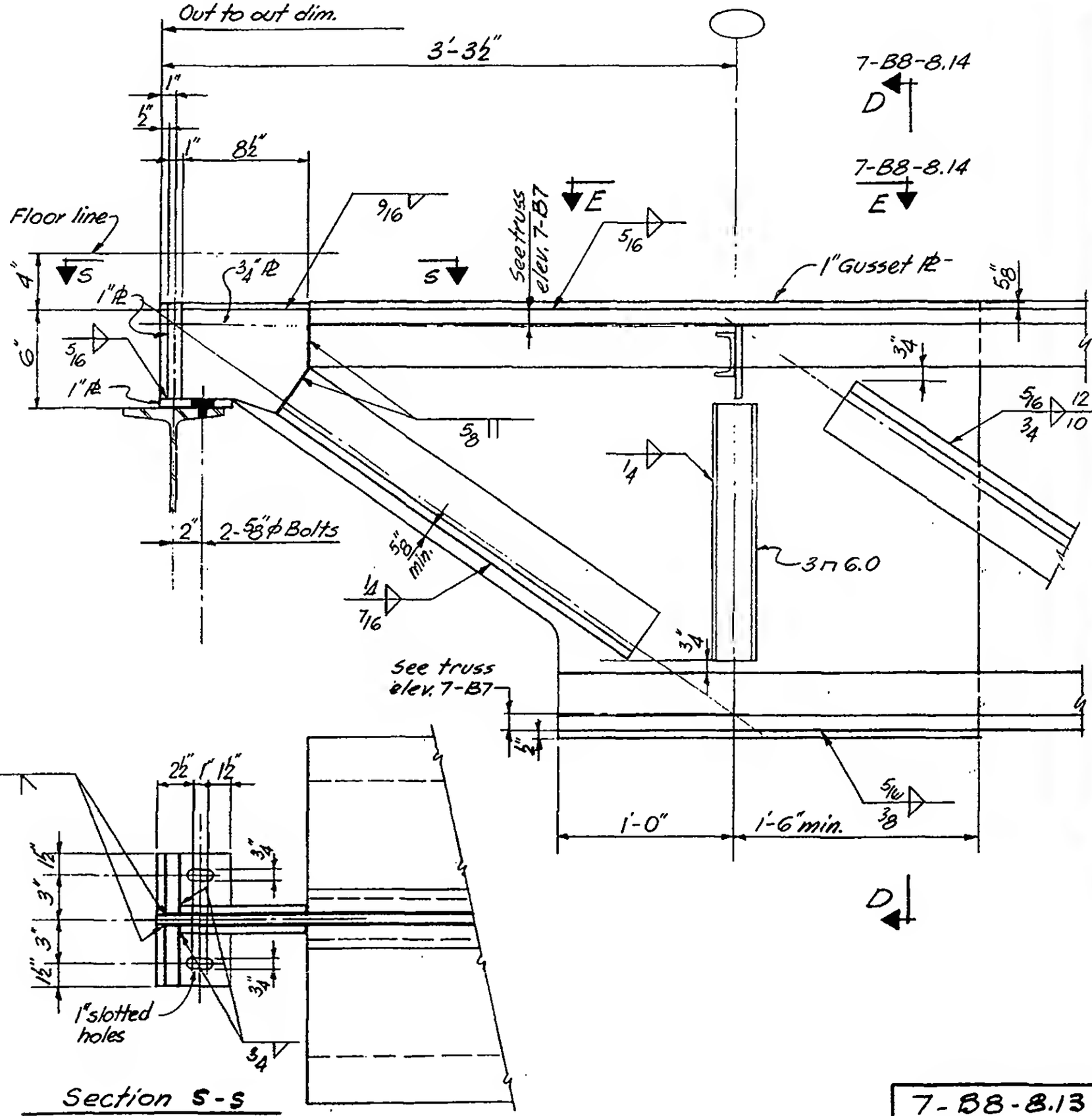
REVIEWED W. Brewer

7-B8-8.12

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.13 | DATE: 3-19-69

REVISIONS



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DESIGNED K. Howang

DRAWN J. Gricius

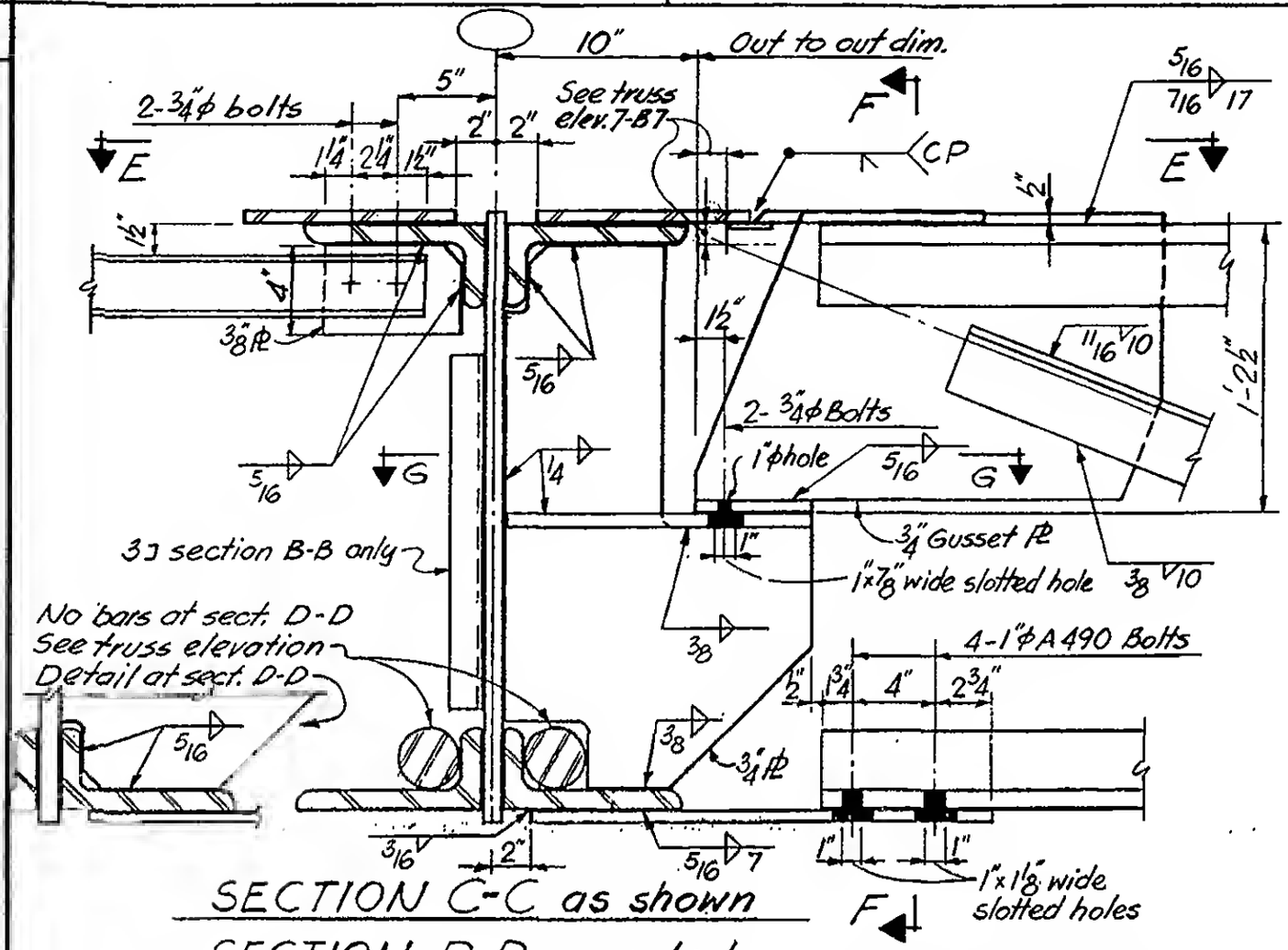
REVIEWED W. Brewer

7-B8-8.13

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

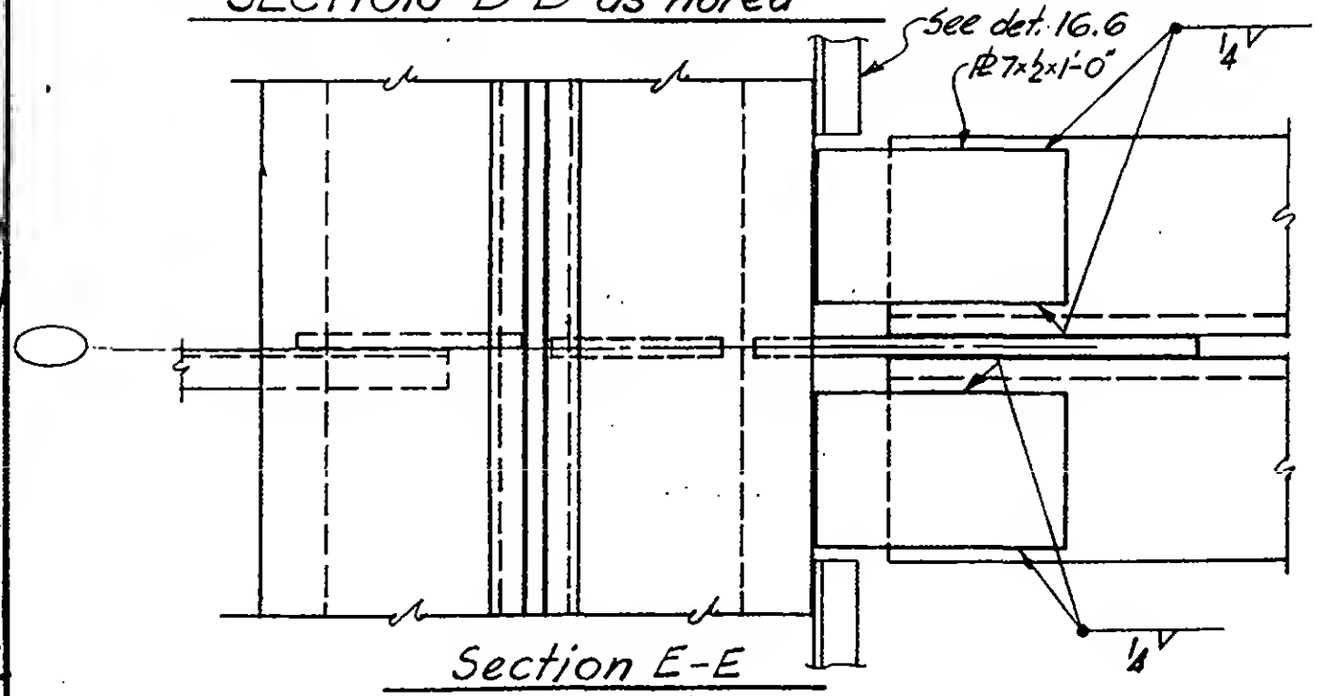
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAILS & SECTIONS C-C thru G-G | DATE: 3-19-69

REVISIONS

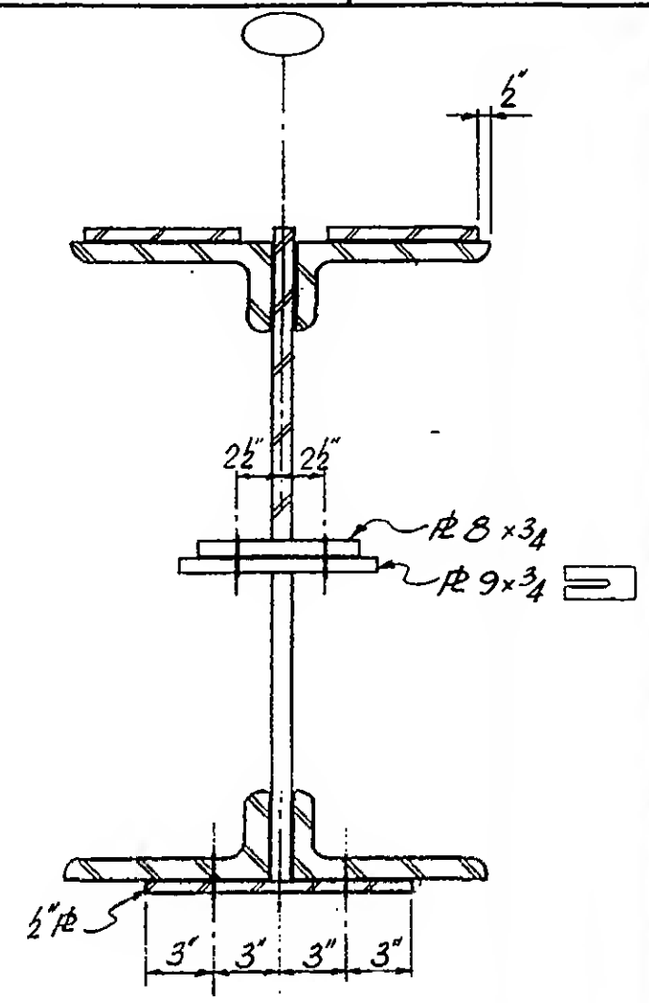


SECTION C-C as shown

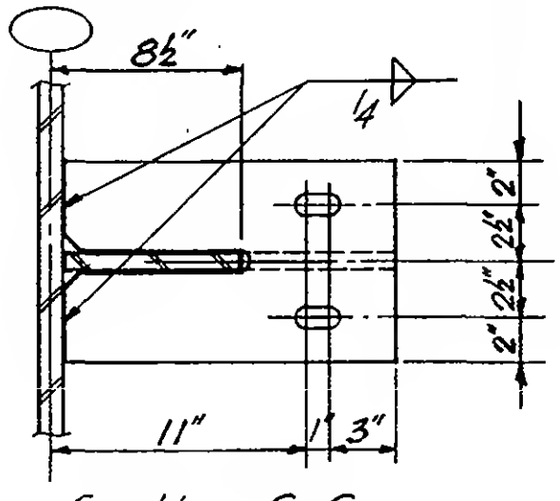
SECTION D-D as noted



Section E-E



Section F-F



Section G-G

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DESIGNED K. Hwang

DRAWN J. Gricius

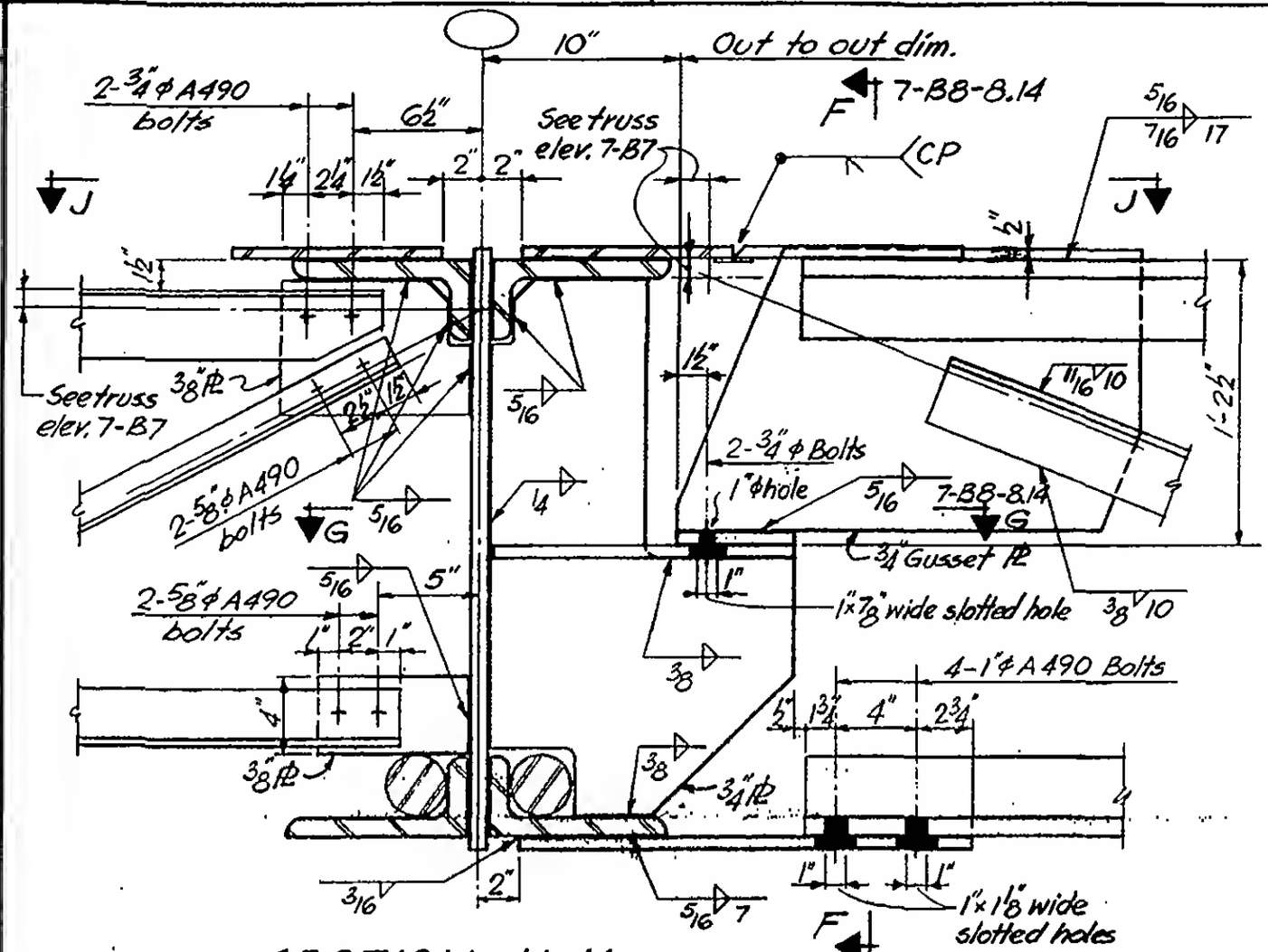
REVISED W. Brewer

7-B8-8.14

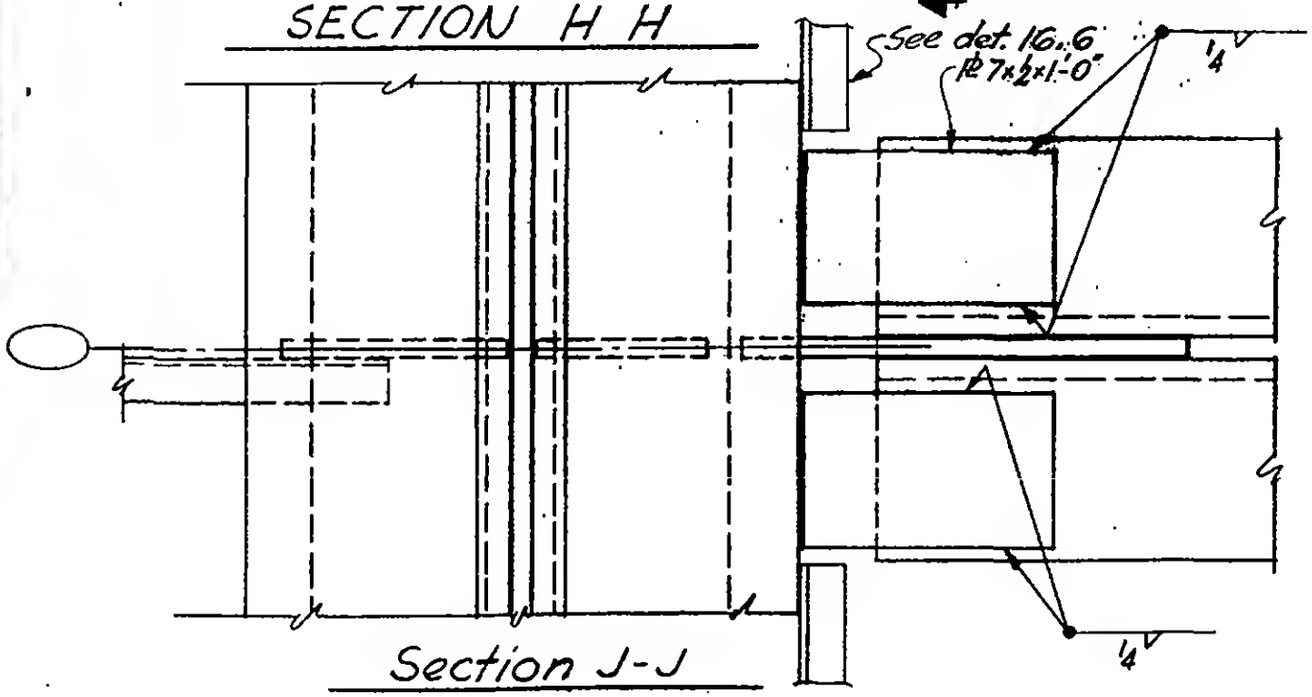
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT	TITLE	DATE
THE WORLD TRADE CENTER	FLOOR TRUSS DETAIL & SECTIONS H-H, J-J	3-19-69

REVISIONS



SECTION H H



Section J-J

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

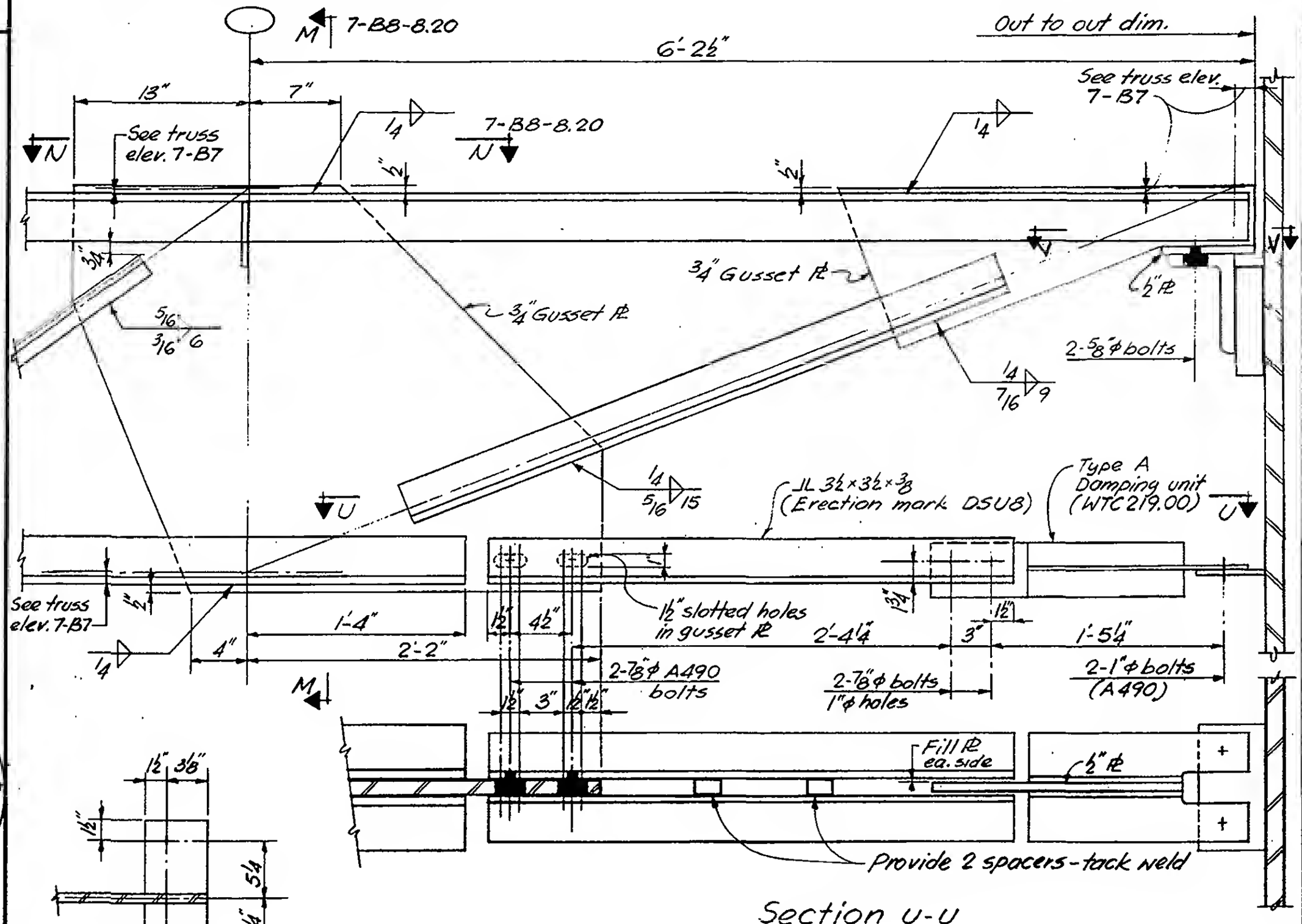
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-8.15

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.14 | DATE: 3-19-69

REVISIONS



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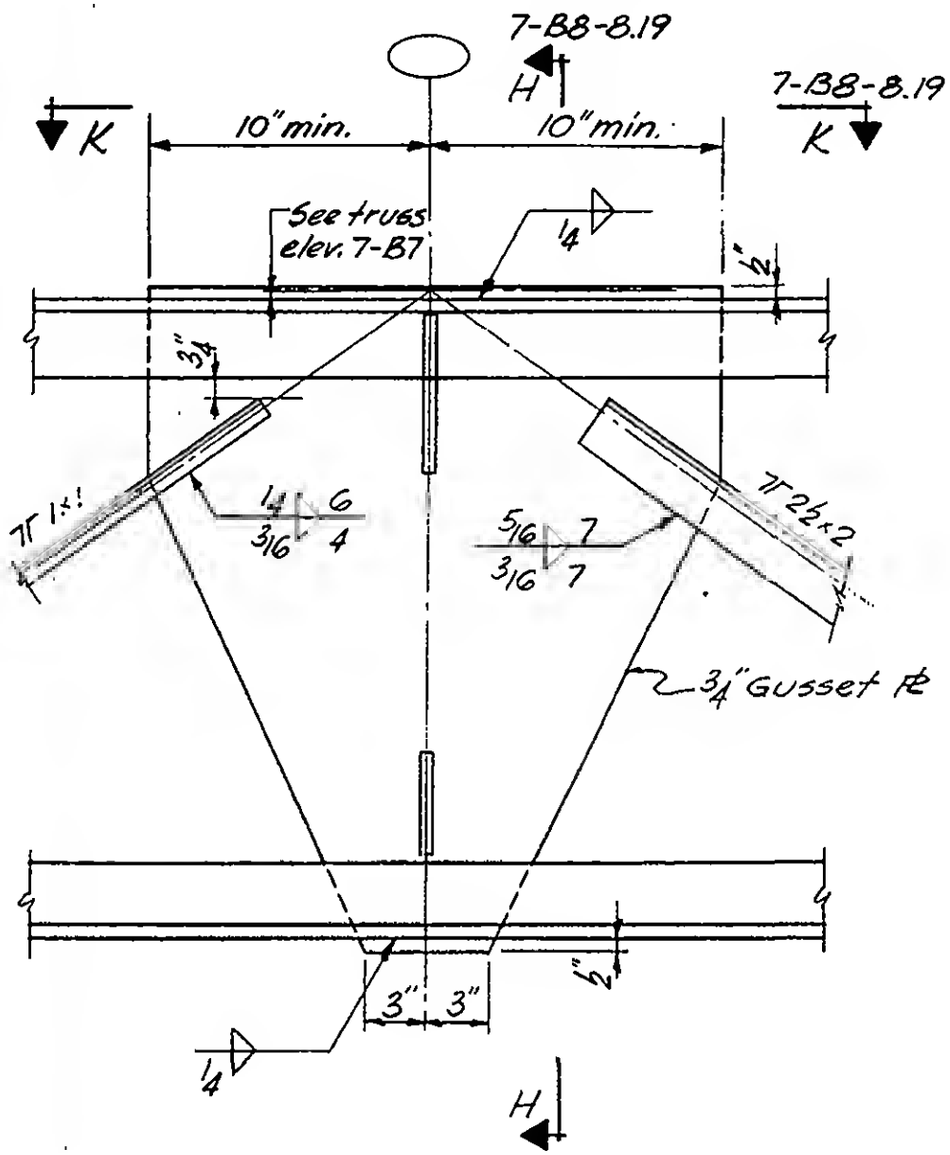
DESIGNED: K. Hwang
DRAWN: J. Gricius
REVIEWED: W. Brewer

7-B8-8.16

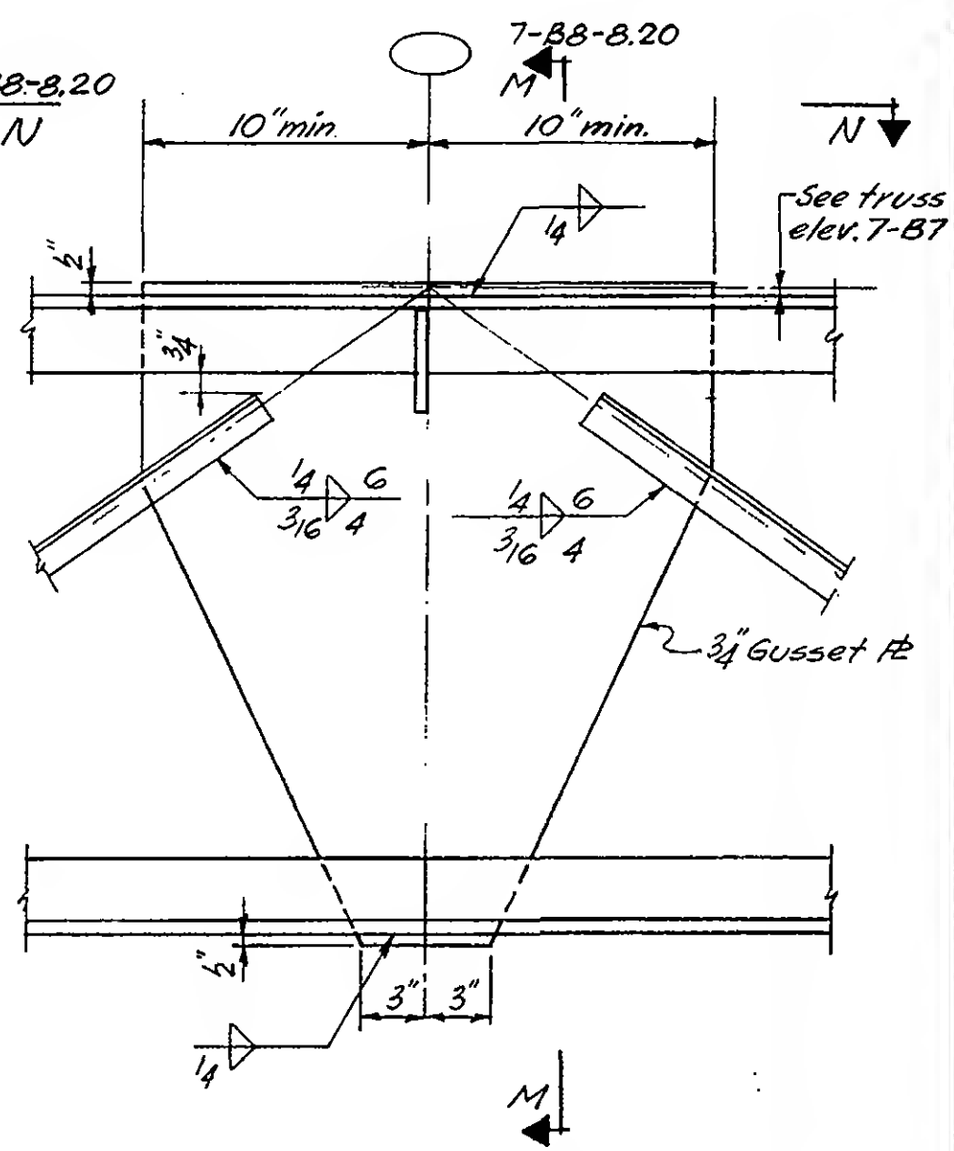
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.15 & 8.16 | DATE: 3-19-69

REVISIONS



DETAIL 8.15



DETAIL 8.16

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LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

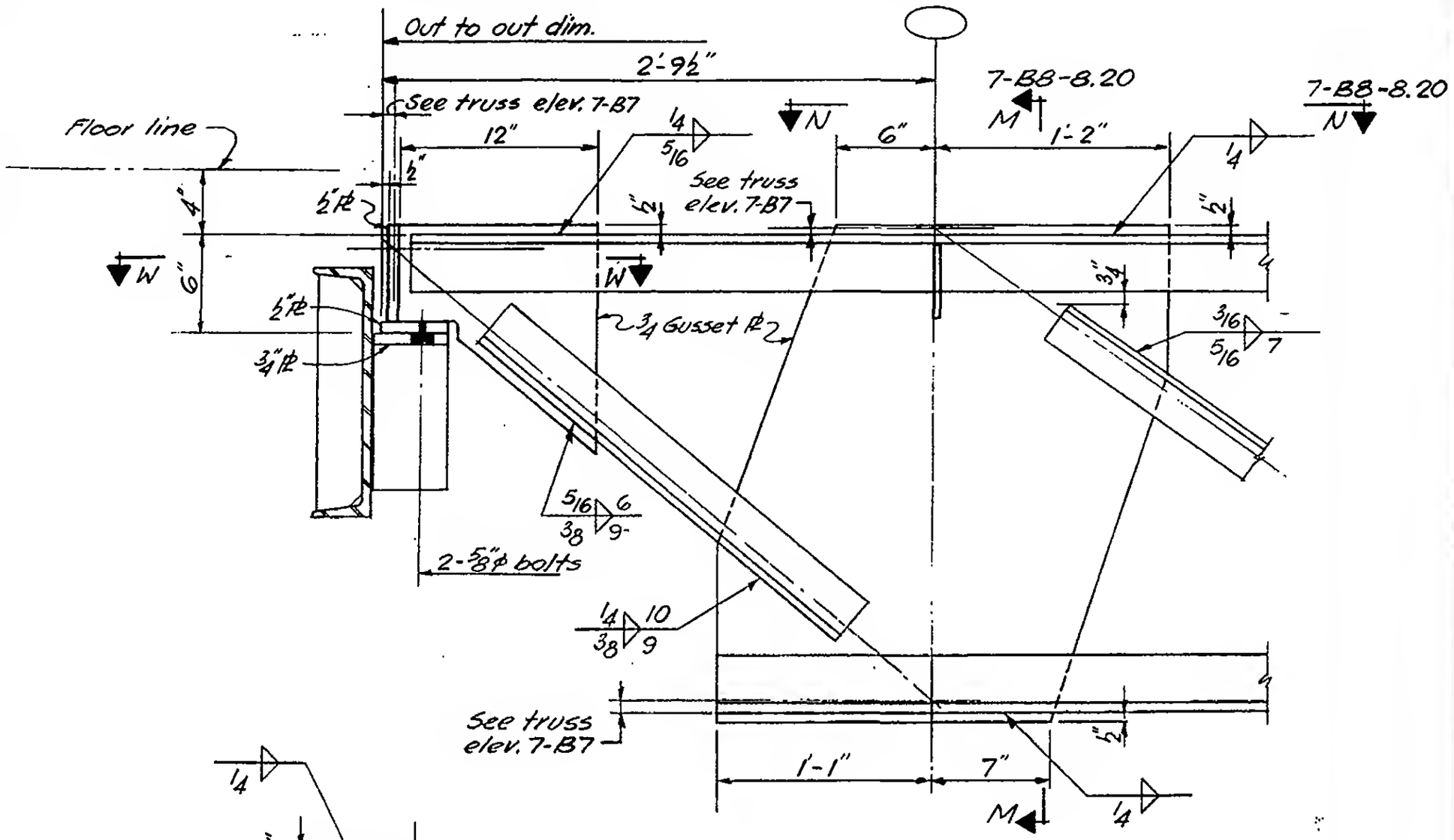
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

7-B8-8.17

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 8.17 | DATE: 3-19-69

REVISIONS



Section W-W

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34960 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang

DRAWN J. Gricius

REVIEWED W. Brewer

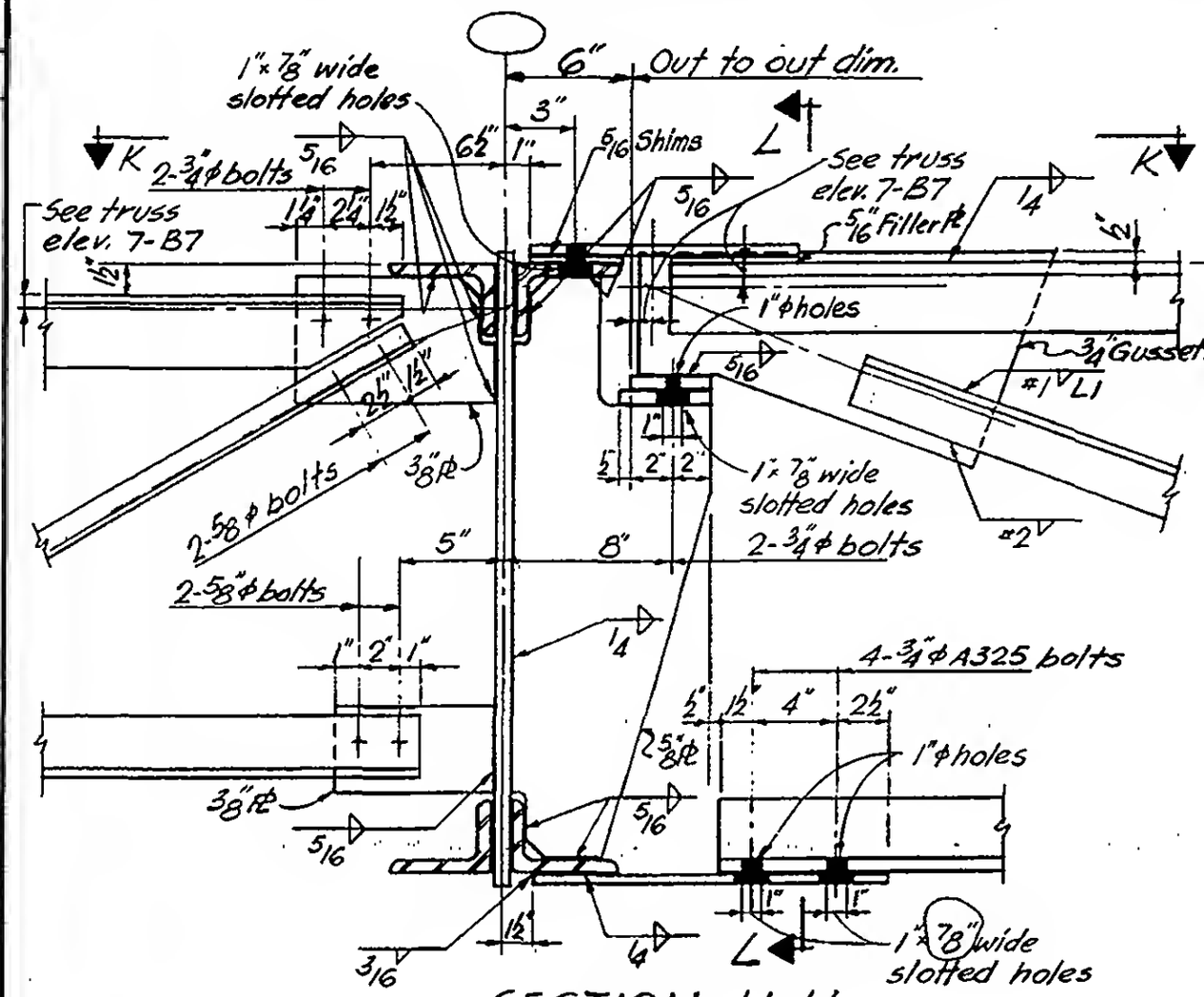
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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

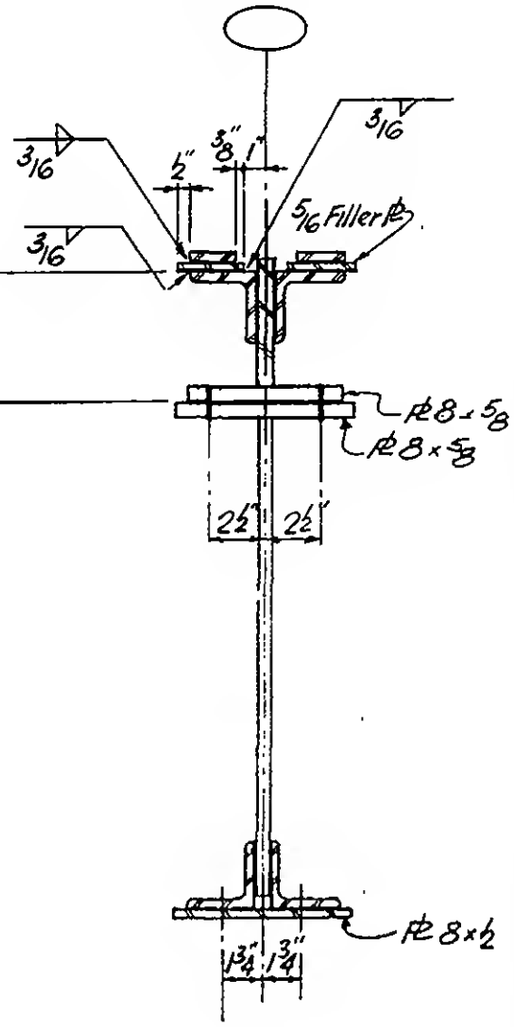
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAILS SECTIONS H-H, L-L | DATE: 3-19-69

REVISIONS

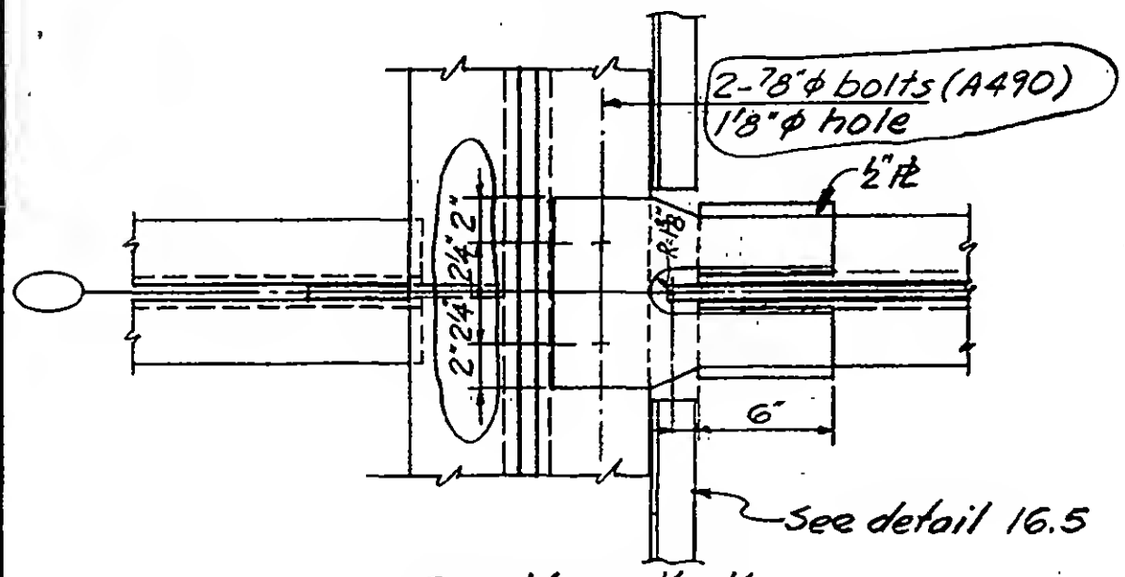
7-14-69



SECTION H-H



Section L-L



Section K-K

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

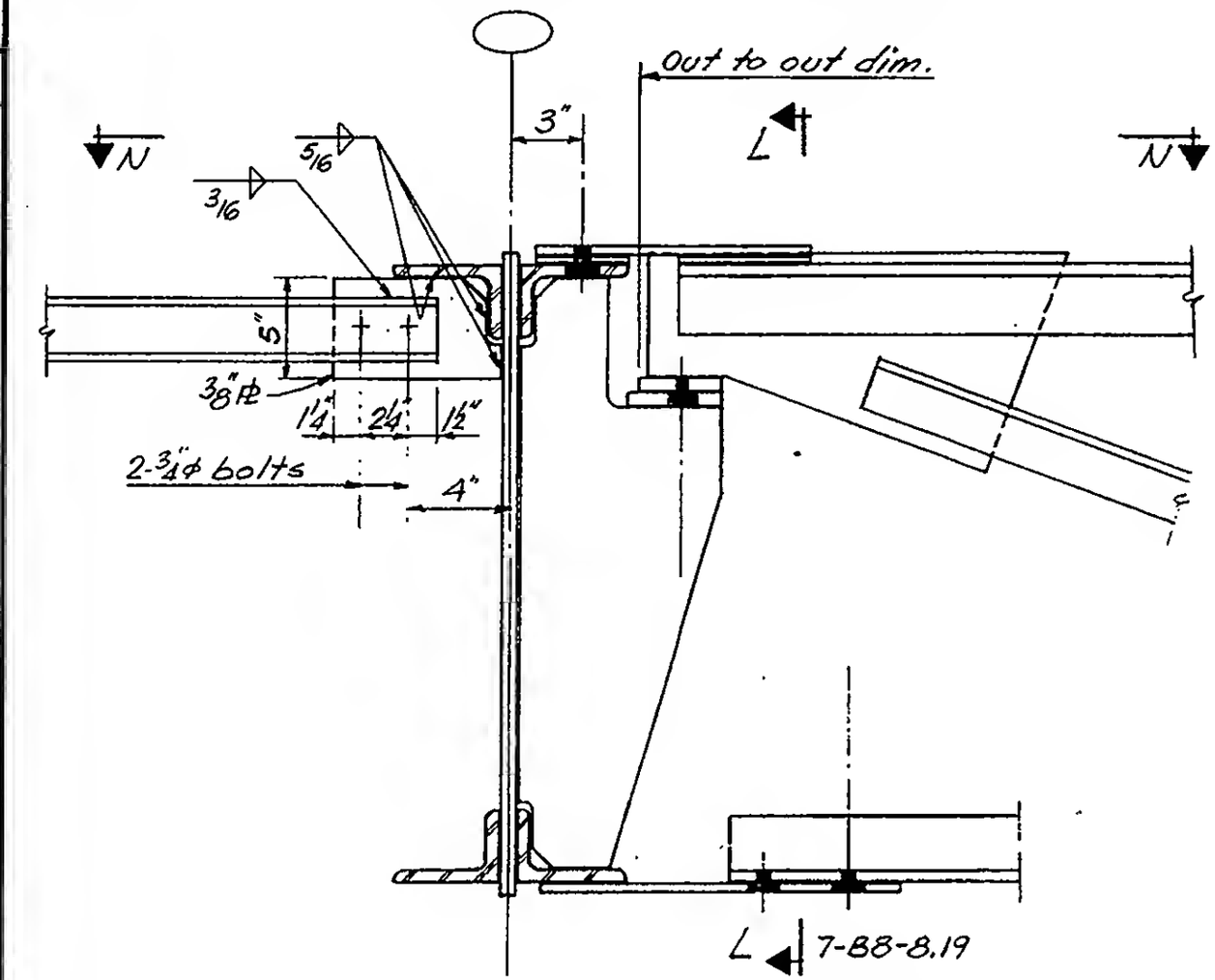
7-B8-8.19

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

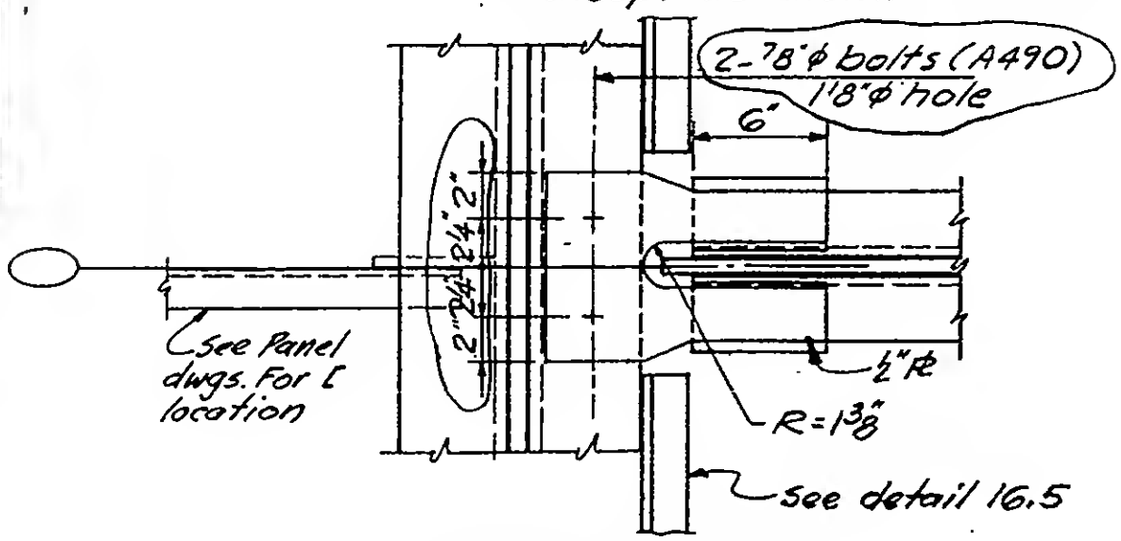
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL & SECTIONS M-M, N-N | DATE: 3-19-69

REVISIONS

7-14-69



SECTION M-M same as section H-H (7-B8-8.19) except as shown



Section N-N

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang

DRAWN J. Gricius

REVIEWED W. Brewer

7-B8-8.20

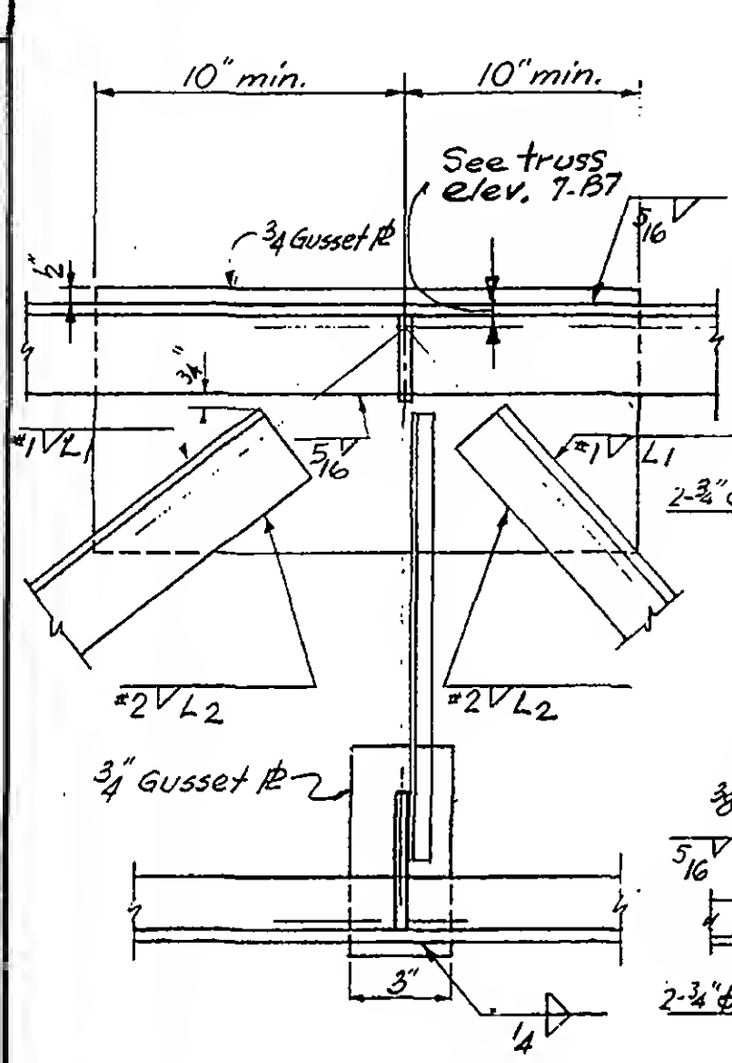
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER

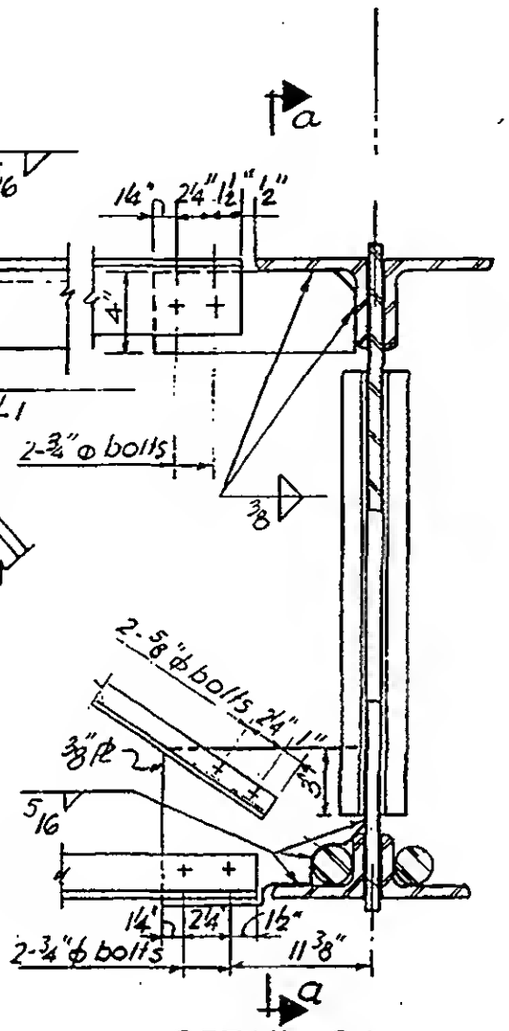
TITLE: FLOOR TRUSS DETAIL 9.1 & 9.2

DATE: 3-19-69

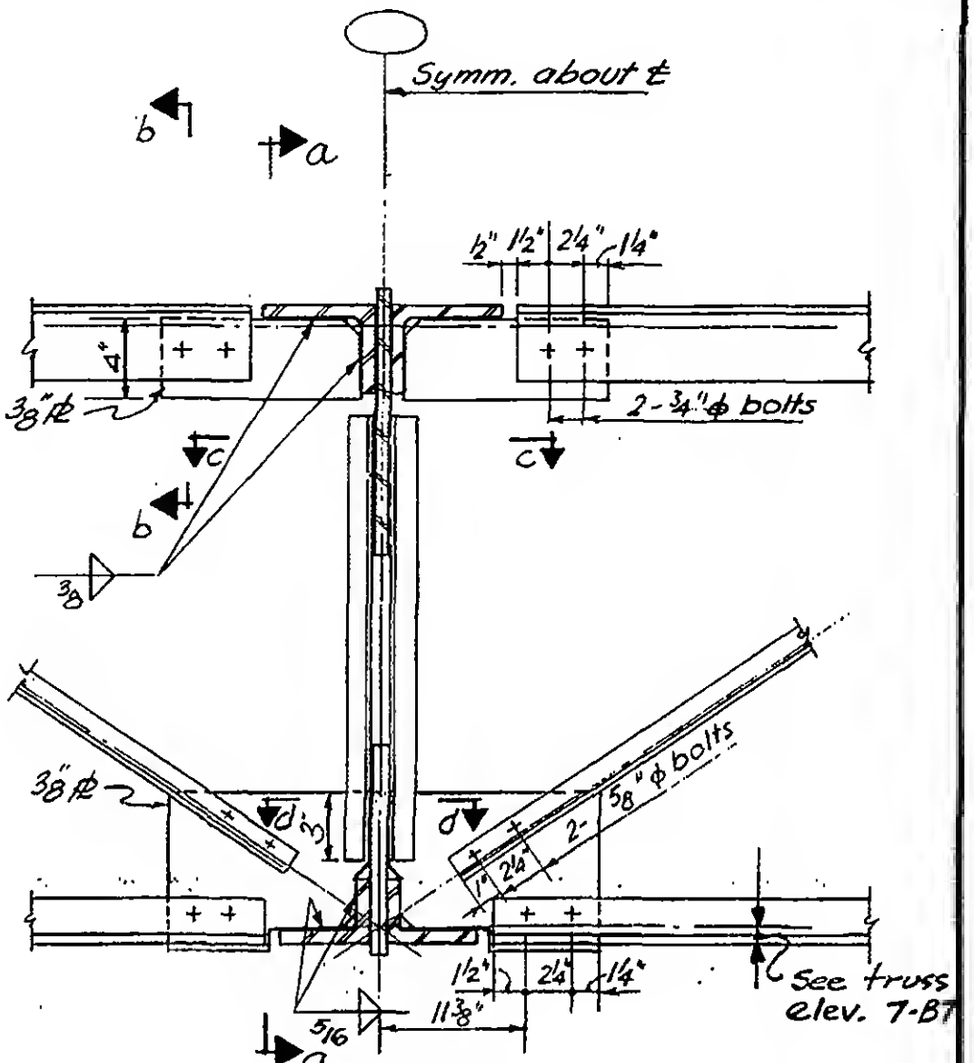
REVISIONS



Section a-a

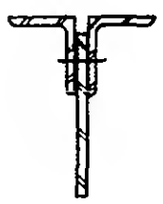


DETAIL 9.1

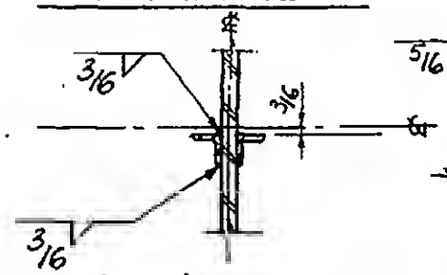


DETAIL 9.2

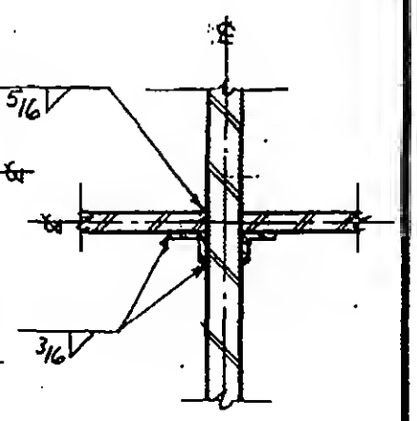
Member Size	Weld #1	L_1	Weld #2	L_2	Sign
1 3/4 x 1 1/4 x 1/4	1/4	6	3/16	4	-
2 1/2 x 1 1/2 x 1/4	1/4	6	3/16	4	-
2 1/2 x 2 x 1/4	1/4	6	3/16	4	-
2 1/2 x 1 1/2 x 5/16	1/4	6	1/4	4	-
4 x 3 1/2 x 7/16	9/16	10	3/8	7	-
1 x 1 x 1/4	1/4	6	3/16	4	+
1 1/4 x 1 1/4 x 1/4	1/4	6	3/16	4	+
2 1/2 x 2 x 1/4	5/16	7	3/16	5	+
3 x 2 x 1/2	7/16	9	3/8	6	+



Section b-b



Section c-c



Section d-d

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34960 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED: K. Hwang

DRAWN: J. Gricius

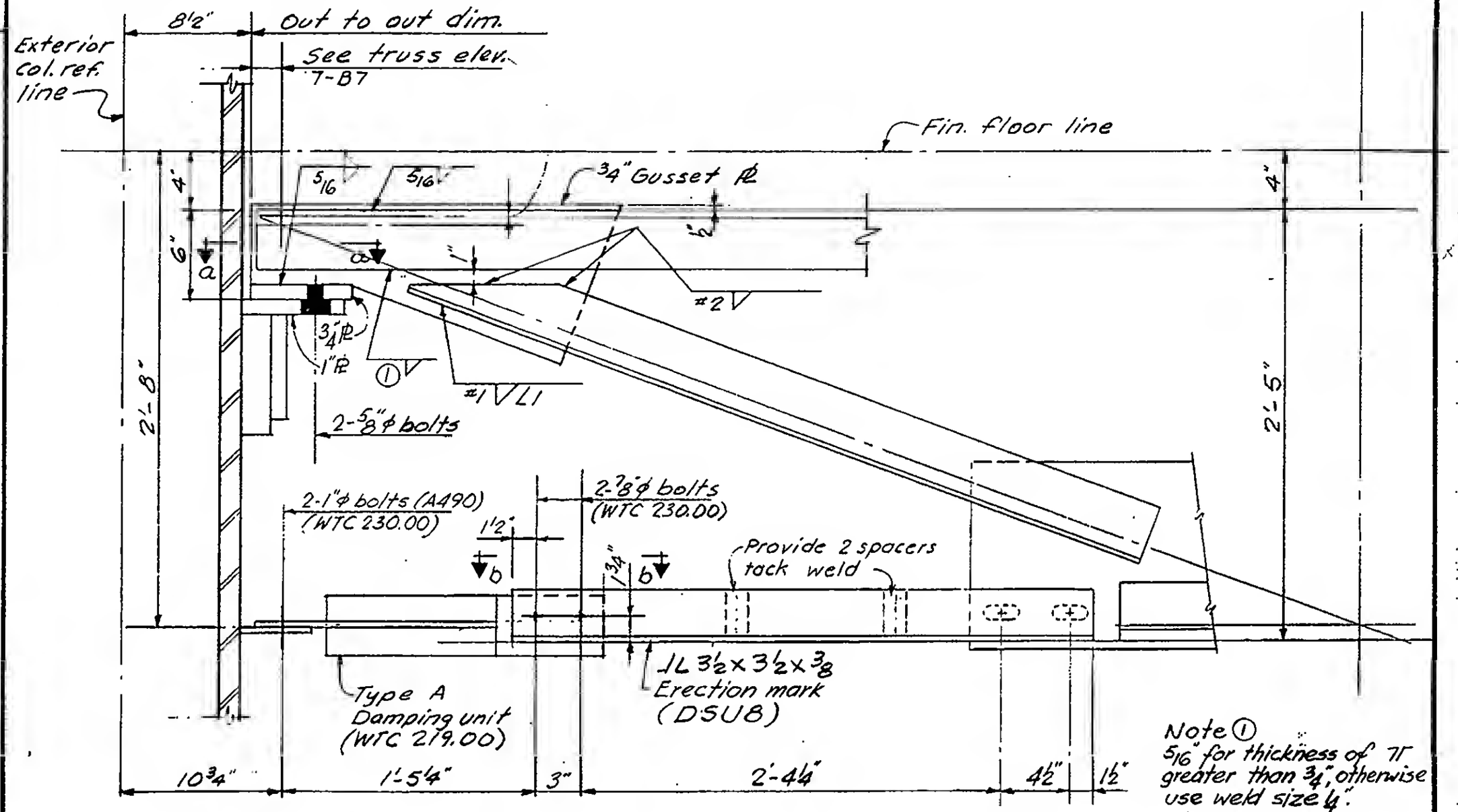
REVIEWED: W. Brewer

7-B8-9.1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: DETAIL 10.1 | DATE: 3-19-69

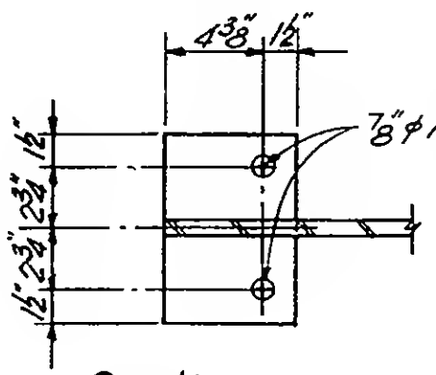
REVISIONS



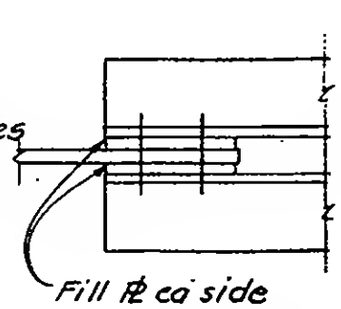
Note ① 5/16" for thickness of PL greater than ¾", otherwise use weld size ¼".

Member size	End Diagonal		
	Weld #1	L1	Weld #2
1¼ x 1¼ x ¼	¼	6	3/16
1¾ x 1¾ x ¼	5/16	6	3/16
2½ x 2 x ¼	5/16	7	3/16
2½ x 1½ x 5/16	5/16	7	¼
3 x 2 x ¼	⅜	6	3/16
2½ x 2 x 5/16	⅜	7	¼
2½ x 2 x ⅜	⅜	8	5/16
3 x 2 x ⅜	⅜	9	5/16

Member size	End Diagonal		
	Weld #1	L1	Weld #2
3 x 2 x 7/16	⅜	9	5/16
3 x 2 x ½	7/16	9	⅜
4 x 3 x ⅜	½	10	5/16
4 x 3½ x ⅜	9/16	10	5/16
4 x 3½ x ½	11/16	10	7/16



Section a-a



Section b-b

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34960 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang

DRAWN A.L. FRANQUI

REVIEWED W. Brewer

7-B8-10.1

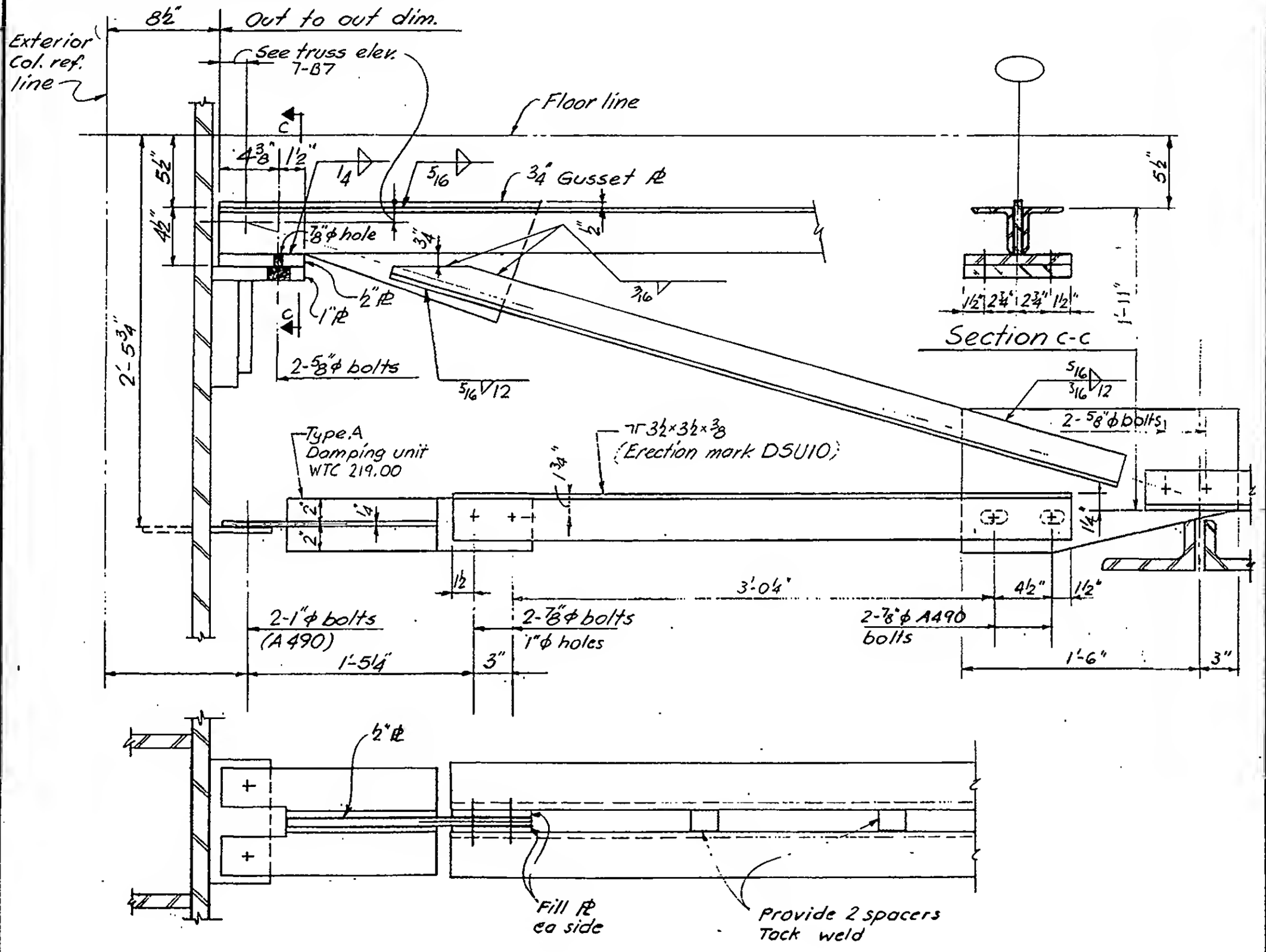
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER

TITLE: FLOOR TRUSS DETAIL 10.2

DATE: 3-19-69

REVISIONS



Plan

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED: K. Hwang

DRAWN: J. Gricius

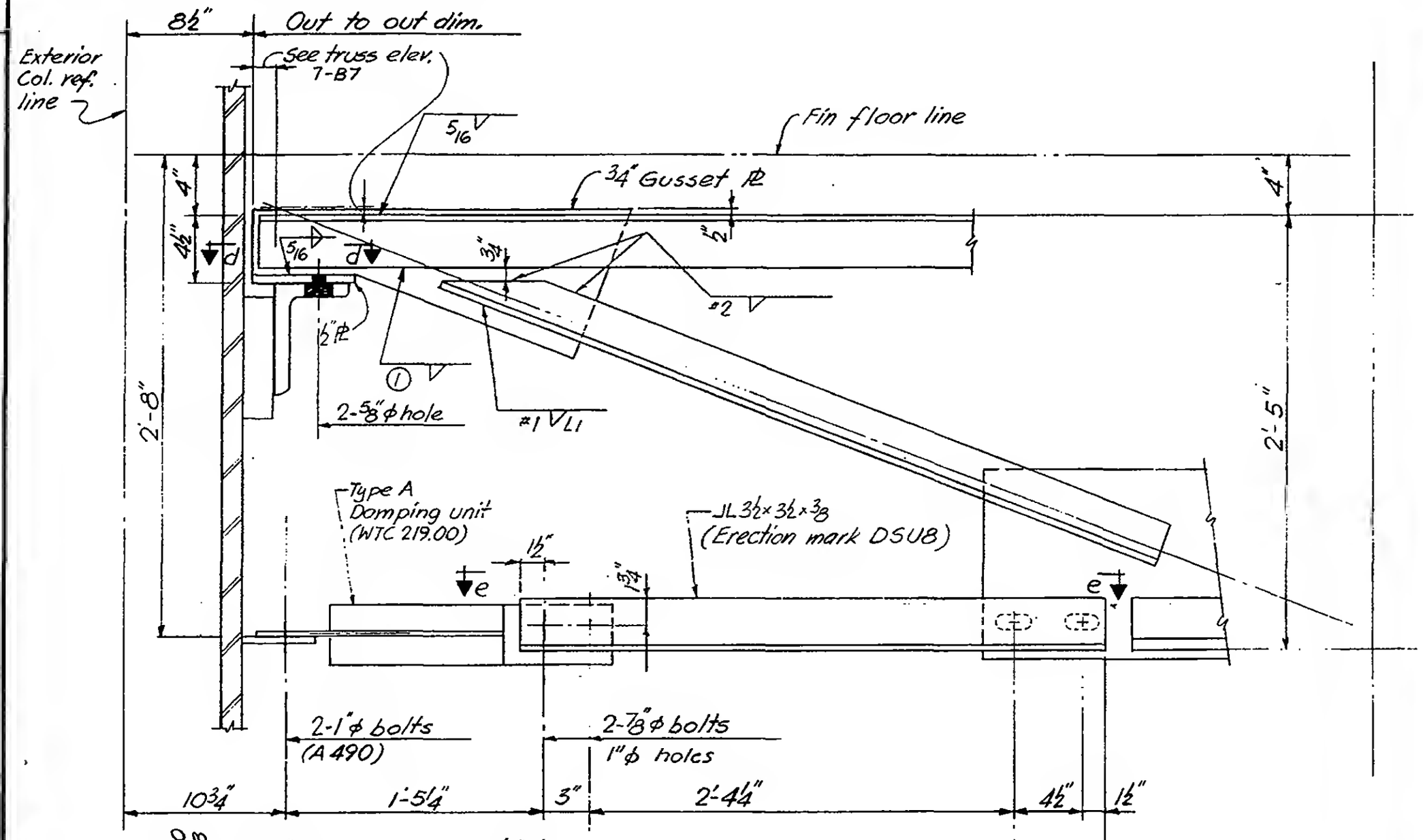
REVIEWED: W. Brewer

7-B8-10.2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 10.3 | DATE: 3-19-69

REVISIONS



Section d-d

Plan Section e-e

See table detail 10.1 for welds.

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DESIGNED K. Hwang

DRAWN J. Gricius

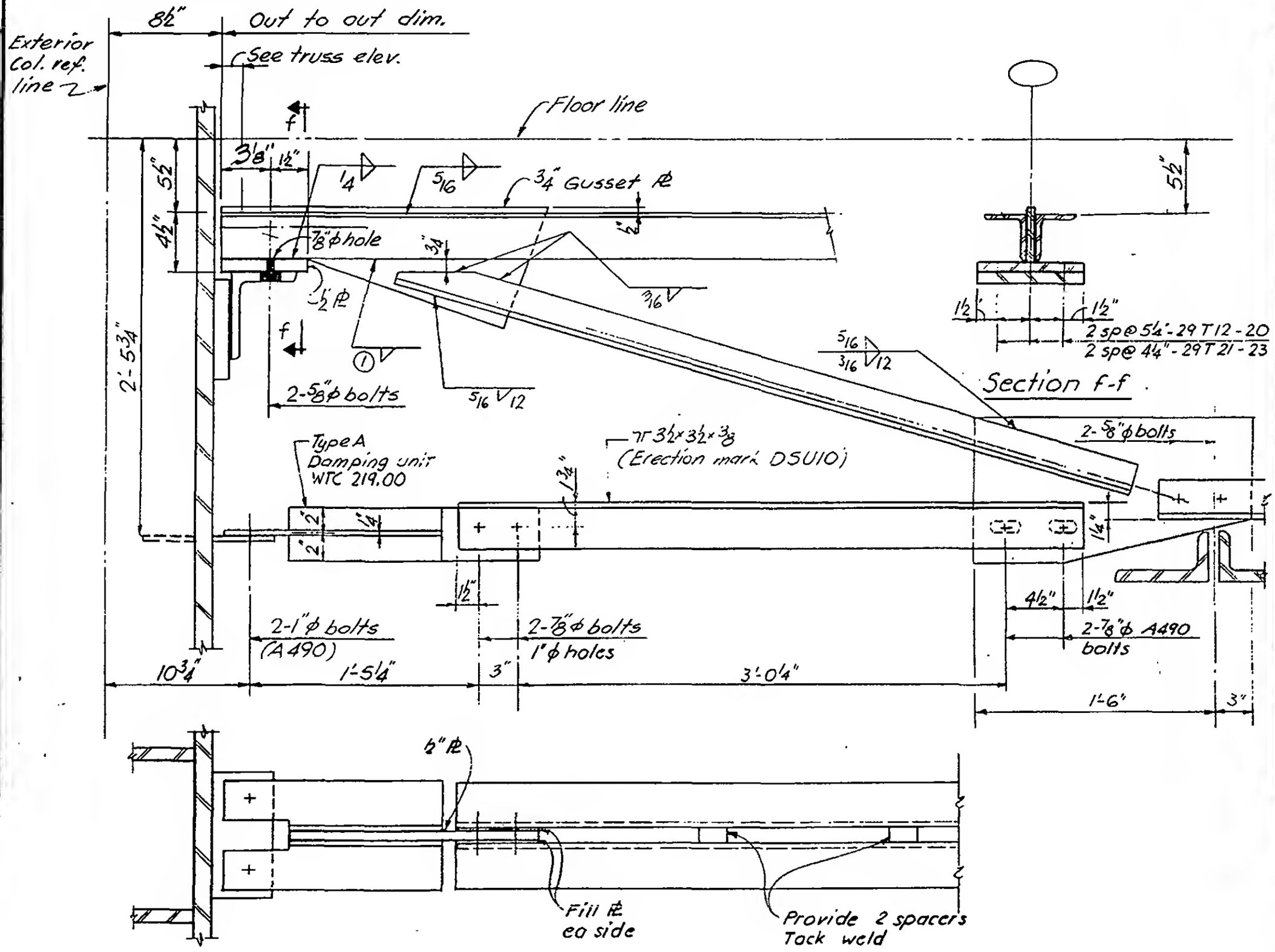
REVIEWED W. Brewer

7-B8-10.3

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 10.4 | DATE: 3-19-69

REVISIONS



Plan

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DESIGNED K. Hwang

DRAWN J. Gricius

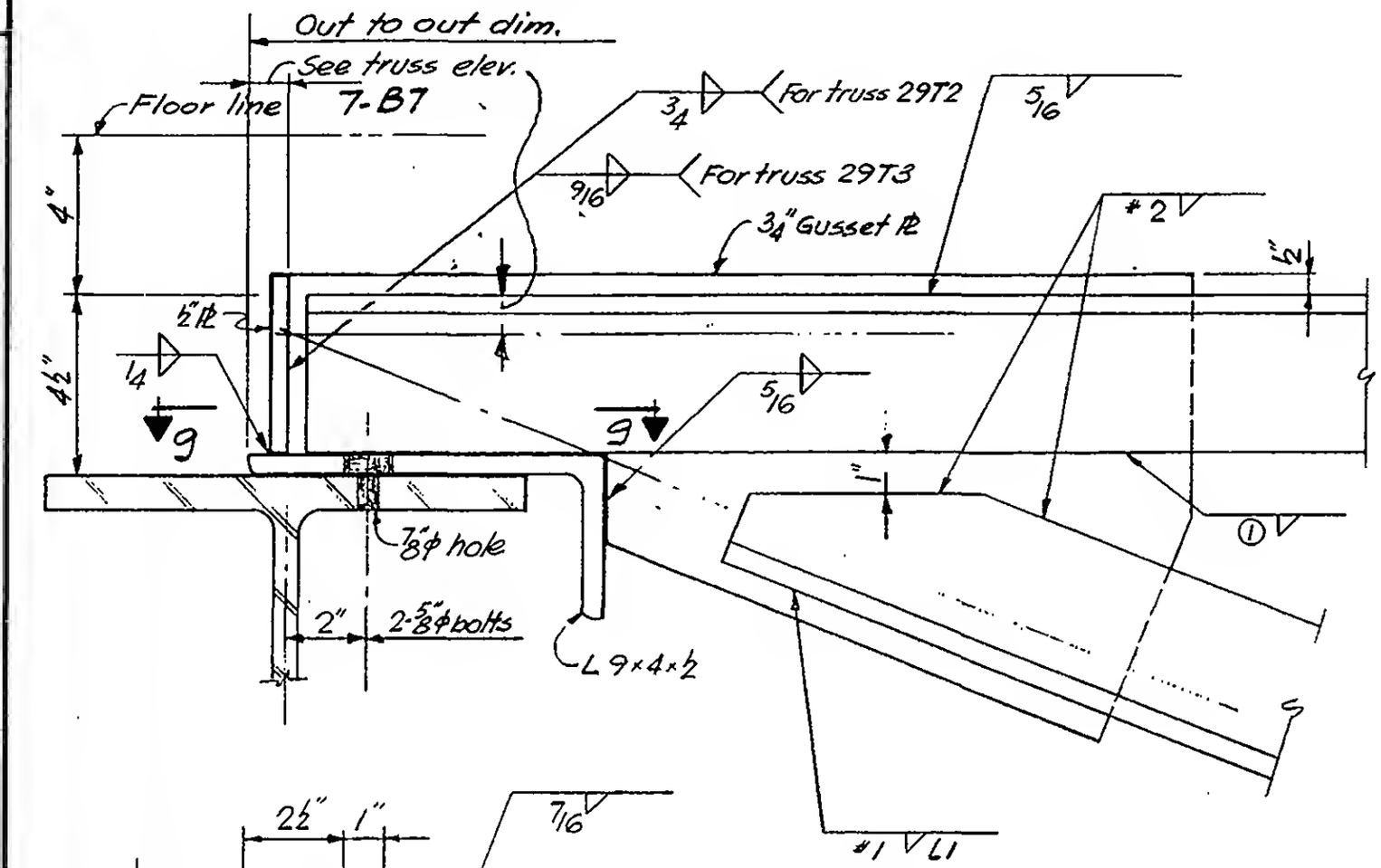
REVIEWED W. Brewer

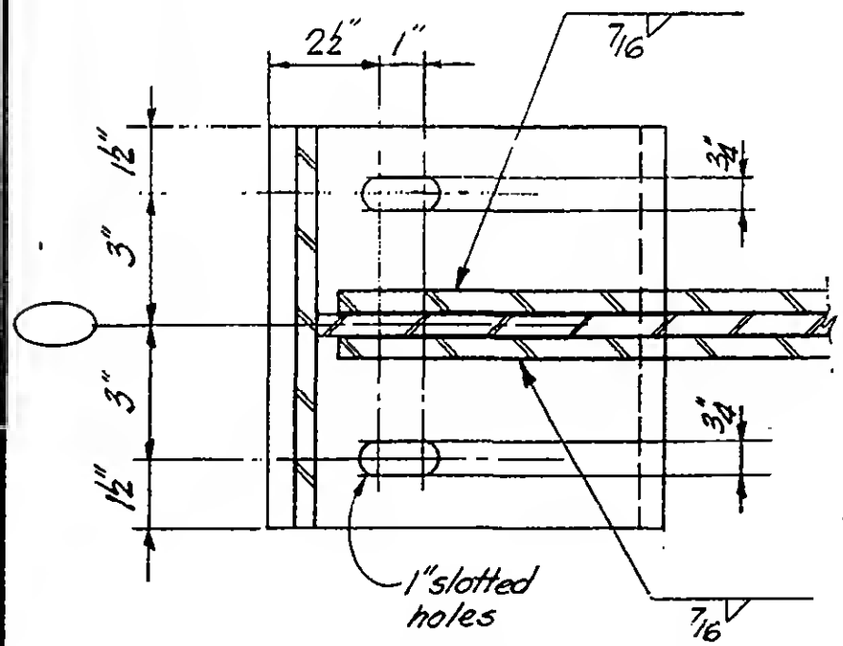
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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 10.5 | DATE: 3-19-69

REVISIONS





Plan Section 9-9

See table detail 10.1 for welds.

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LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

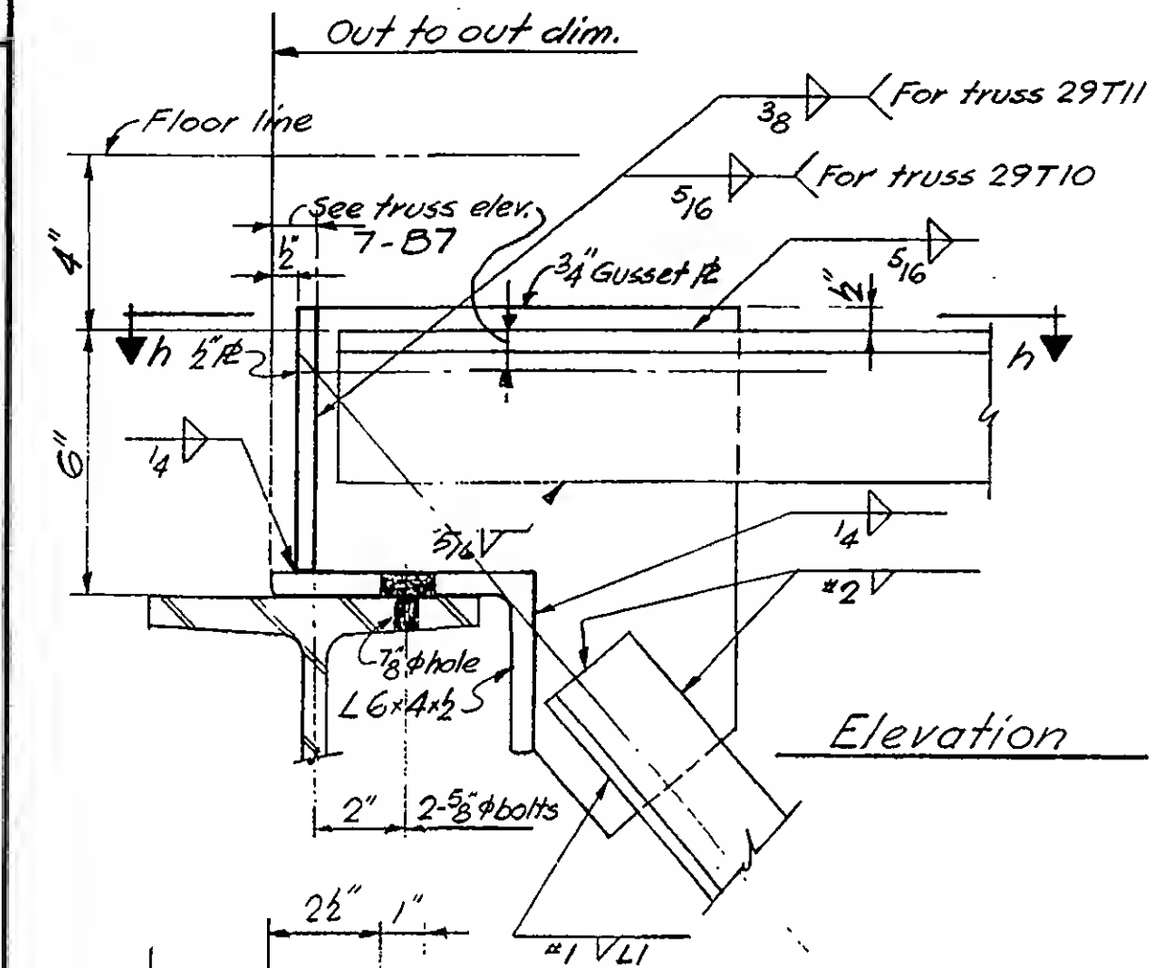
DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

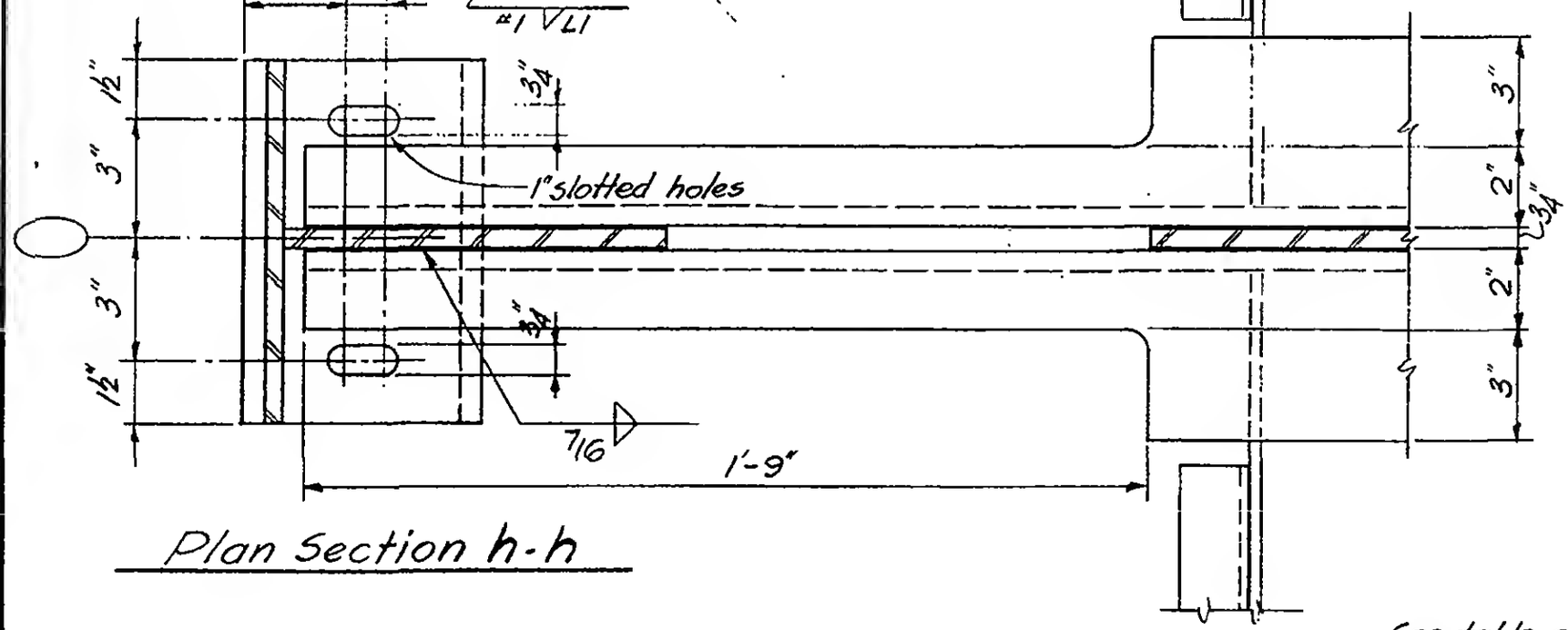
7-B8-10.5

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 10.6 | DATE: 3-19-69

REVISIONS





Plan Section h-h

See table detail 10.1 for welds.

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

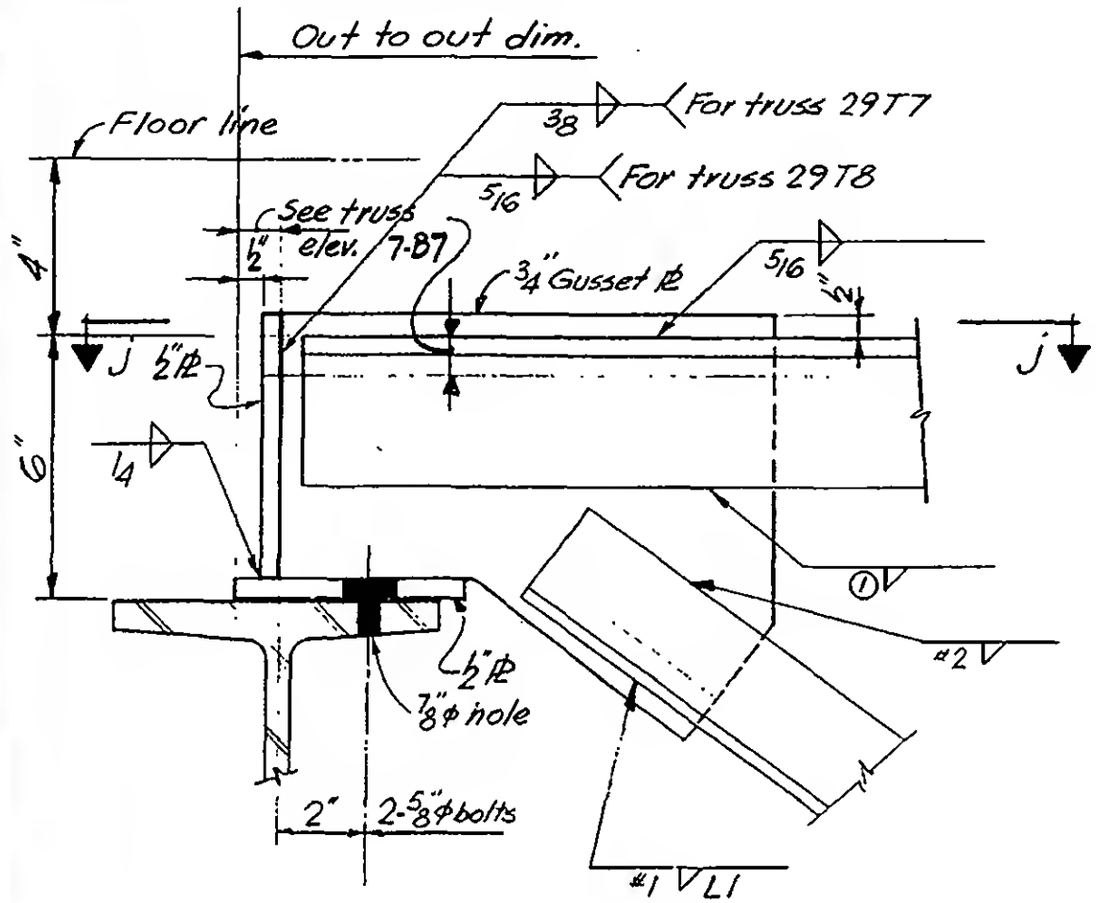
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7-B8-10.6

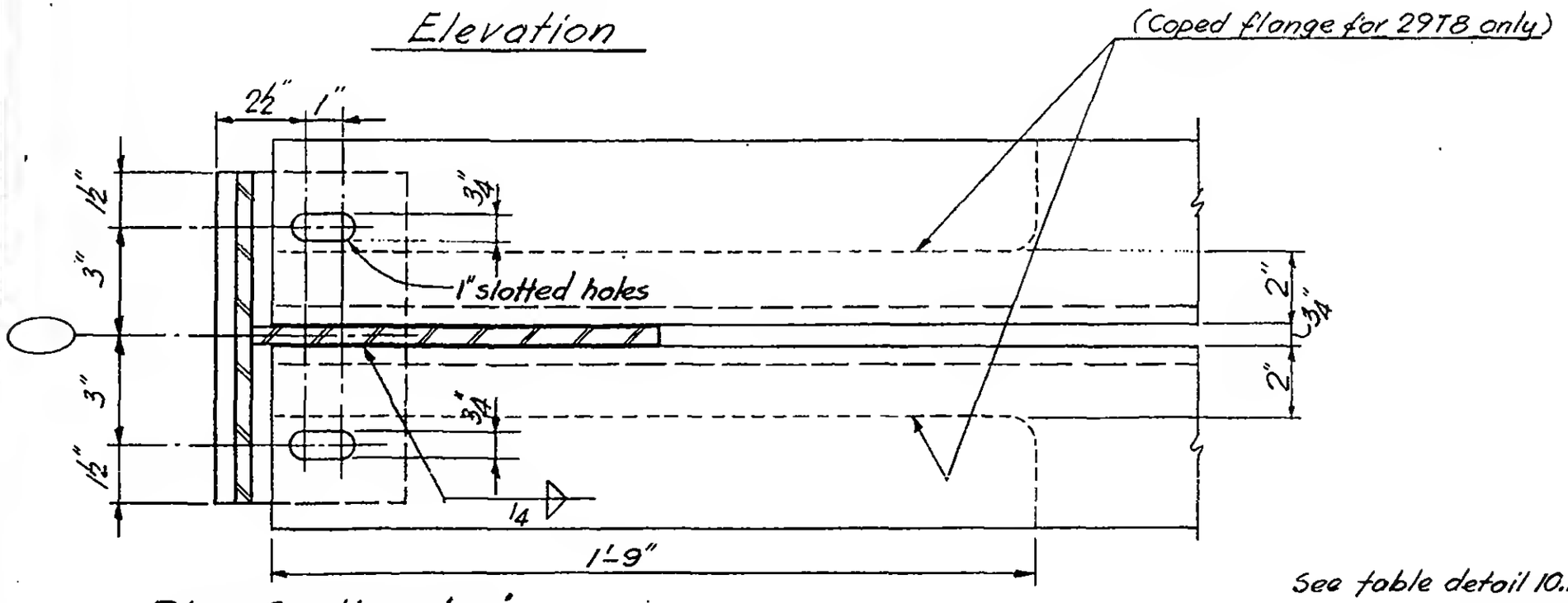
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 10.7 | DATE: 3-19-69

REVISIONS



Elevation



R. Plan Section j-j

See table detail 10.1 for welds.

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

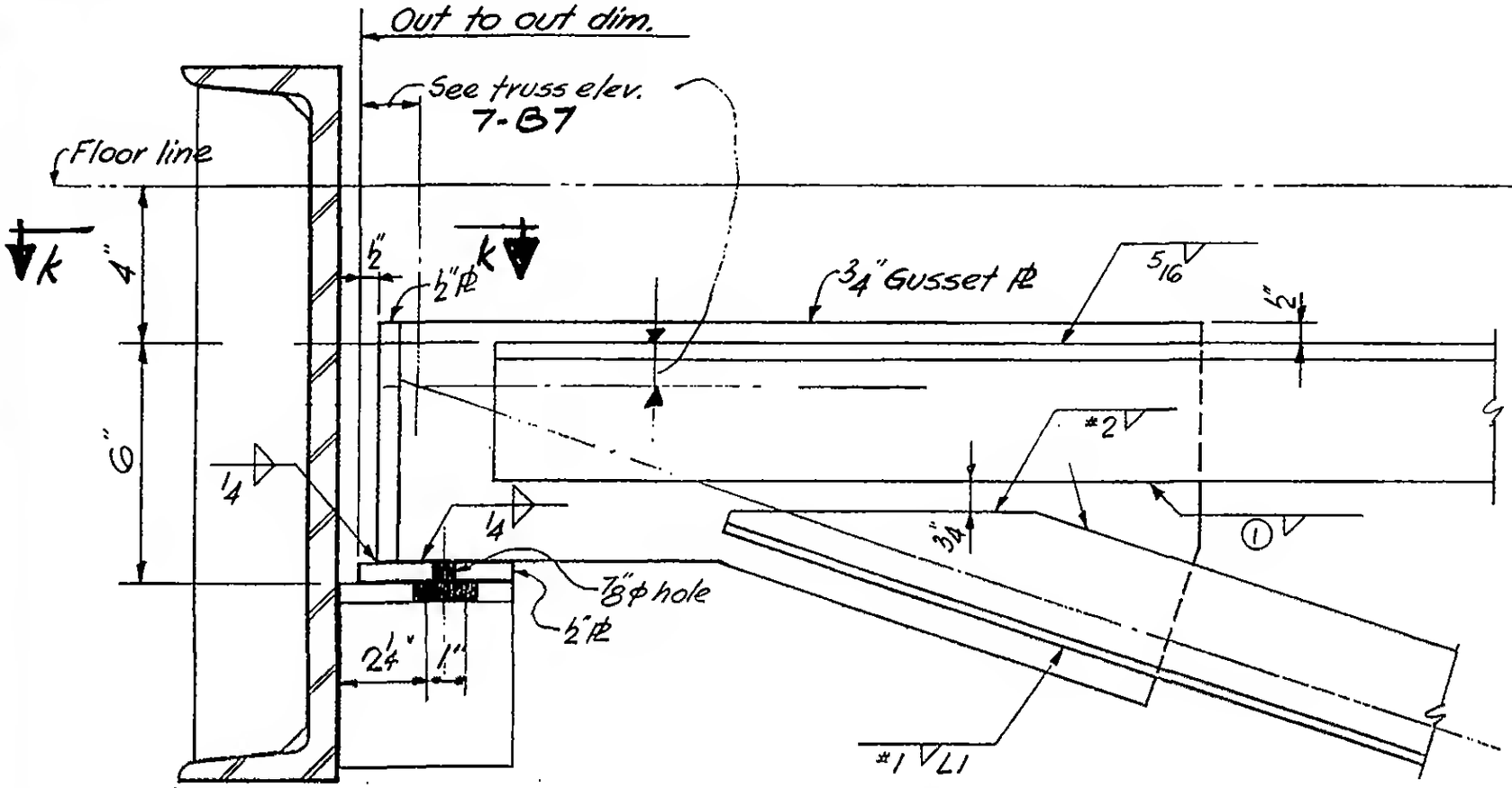
DESIGNED K. Ghwang
DRAWN J. Gricius
REVIEWED W. Brewer

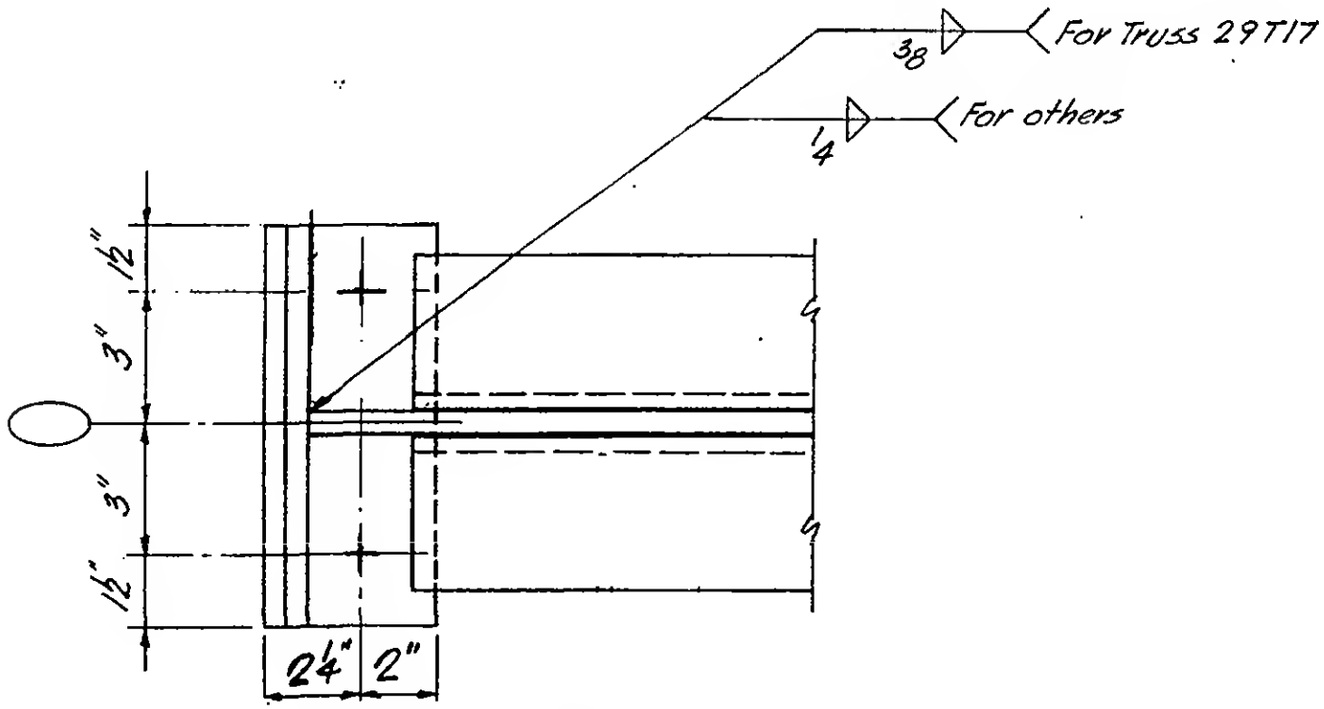
7-B8-10.7

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAIL 10.8 | DATE 3-19-69

REVISIONS





Plan Section k-k

see table detail 10.1 for welds.

7-B8-10.8

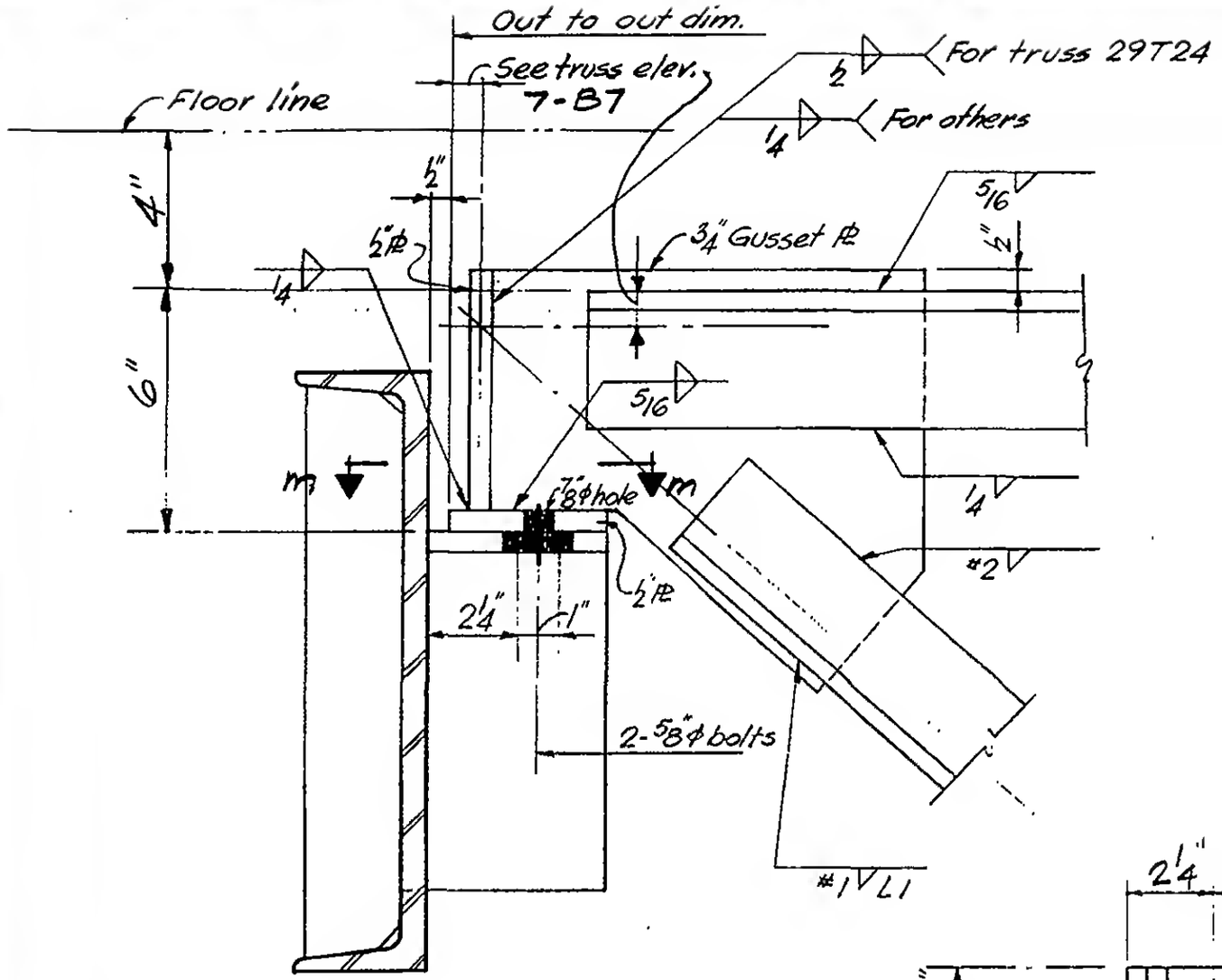
LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

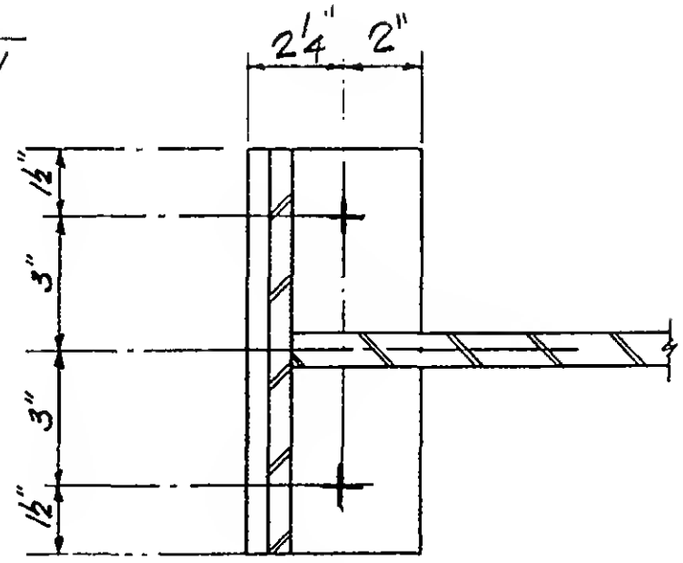
DESIGNED K. Ibwang
DRAWN J. Griclus
REVIEWED W. Brewer

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 10.9 | DATE: 3-19-69

REVISIONS





Plan Section m-m

See table Detail 10.1 for welds.

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DRAWN J. Gricius

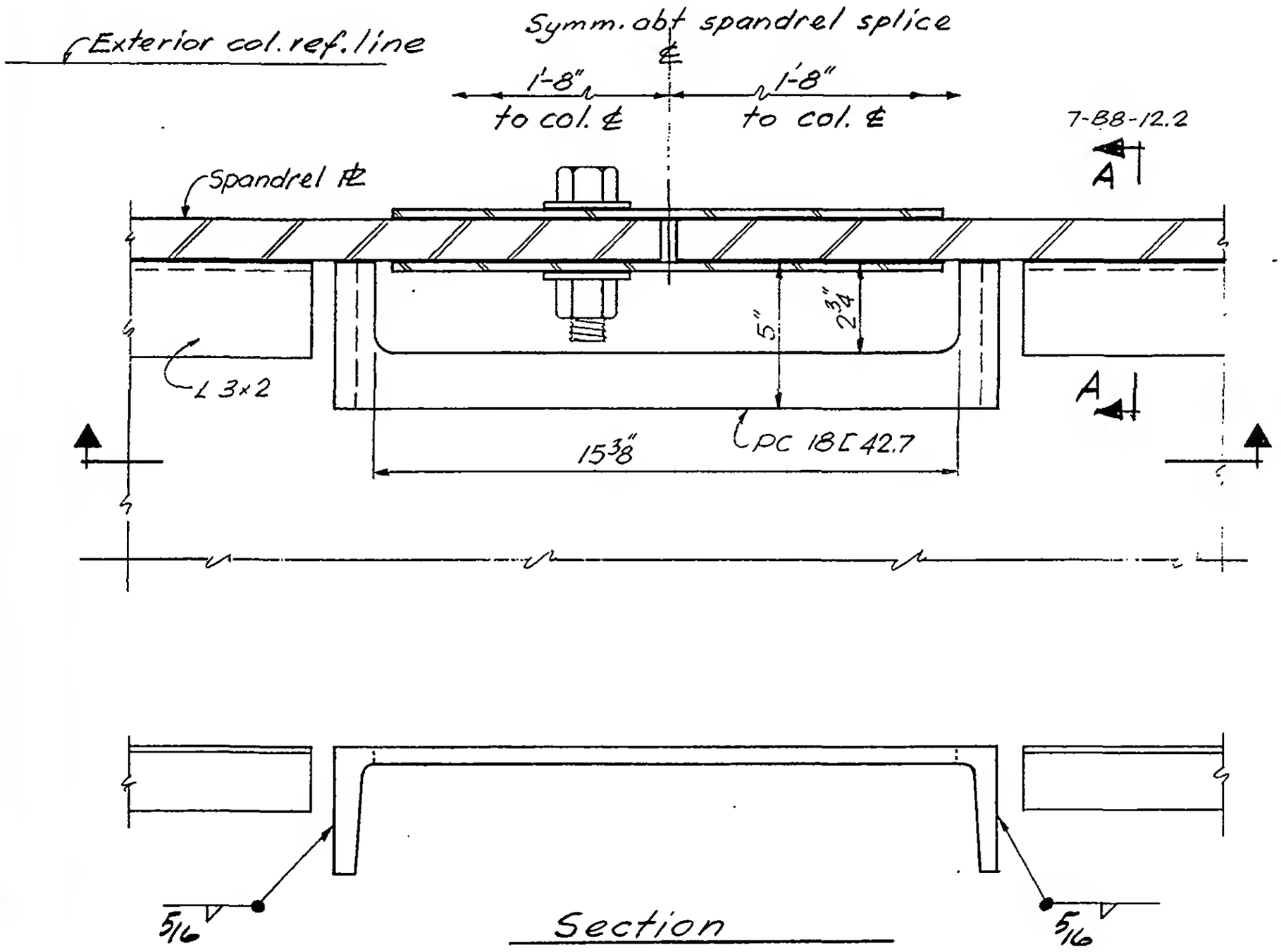
REVIEWED W. Brewer

7-B8-10.9

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAIL 12.12 | DATE 3-19-69

REVISIONS



Section

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

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DRAWN

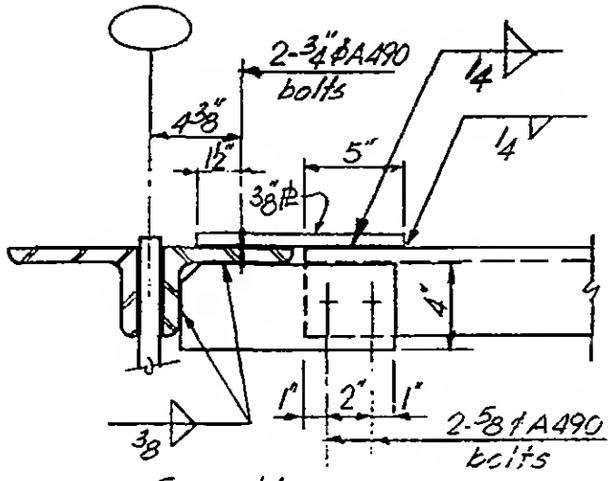
REVIEWED W. Brewer

7-B8-12.5

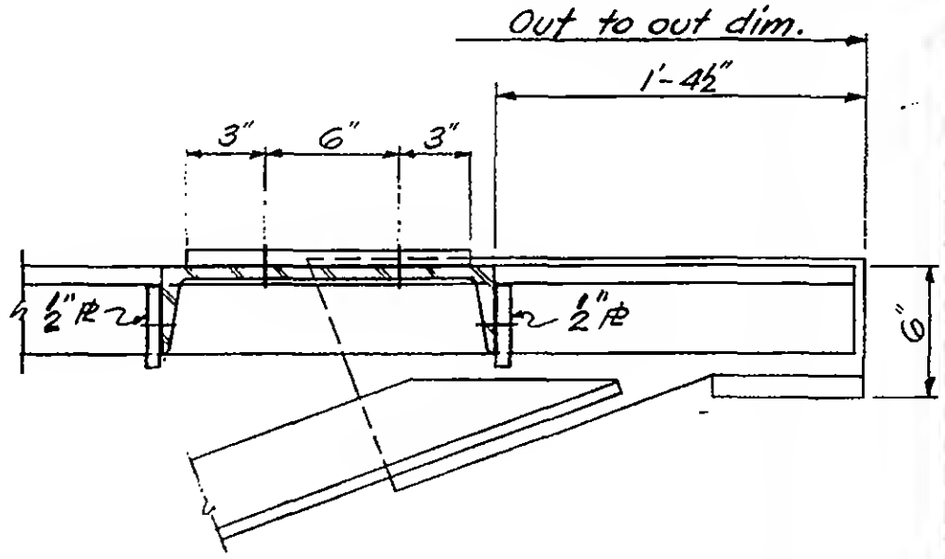
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 13.1 | DATE: 3-19-69

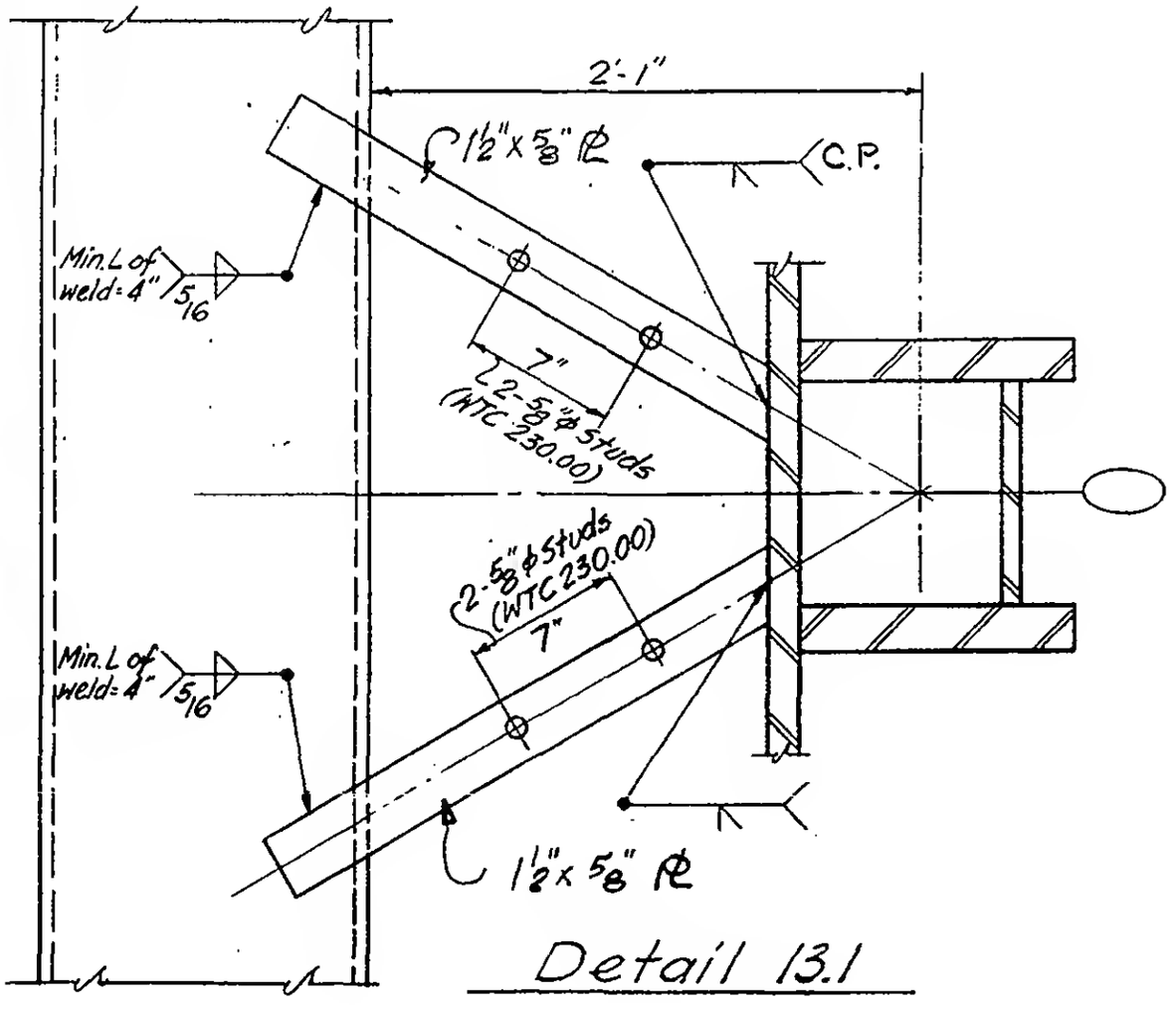
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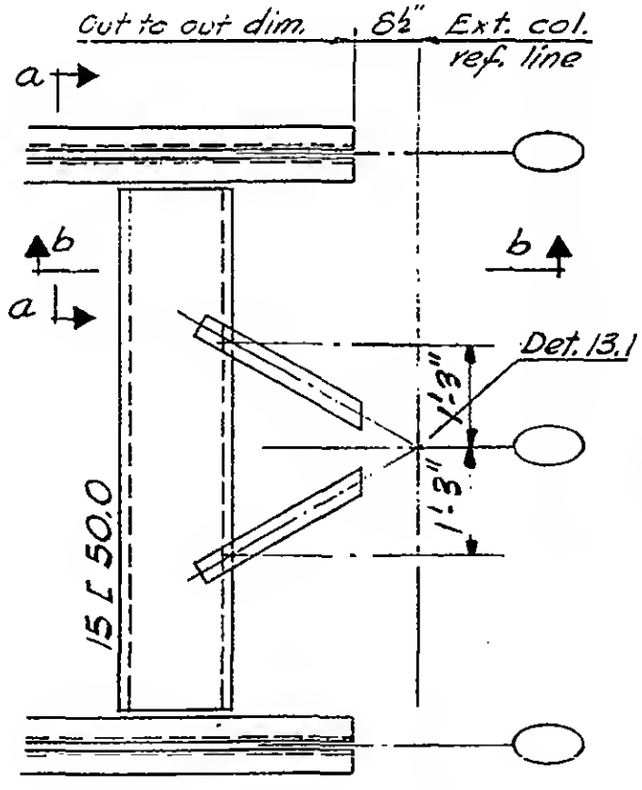
Section a-a



Section b-b



Detail 13.1



Plan

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brewer

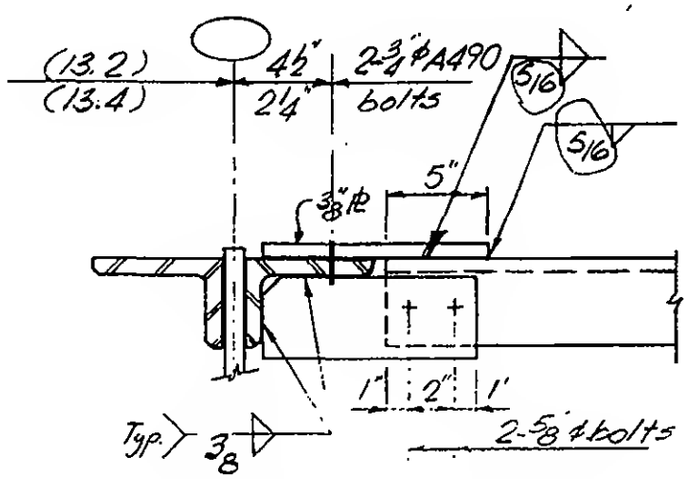
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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

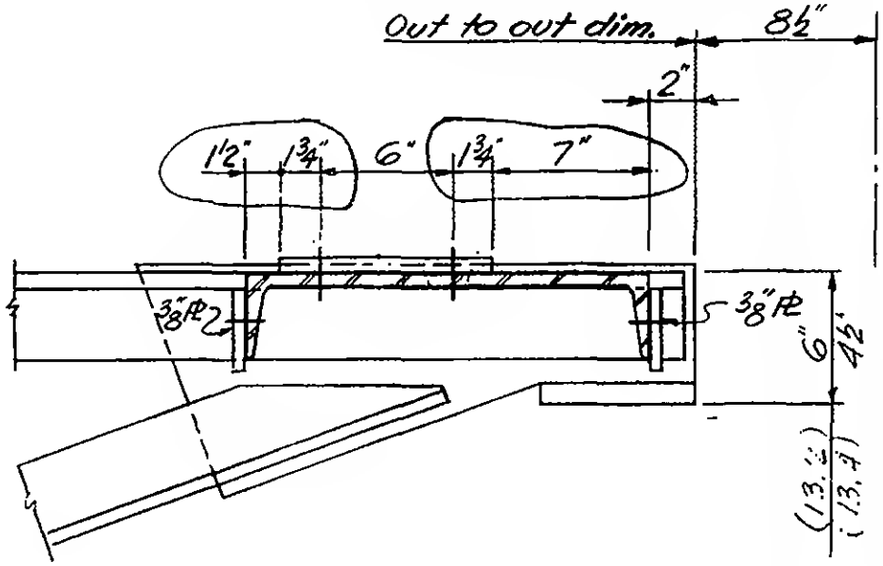
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 13.2 , 13.4 | DATE: 3-19-69

REVISIONS

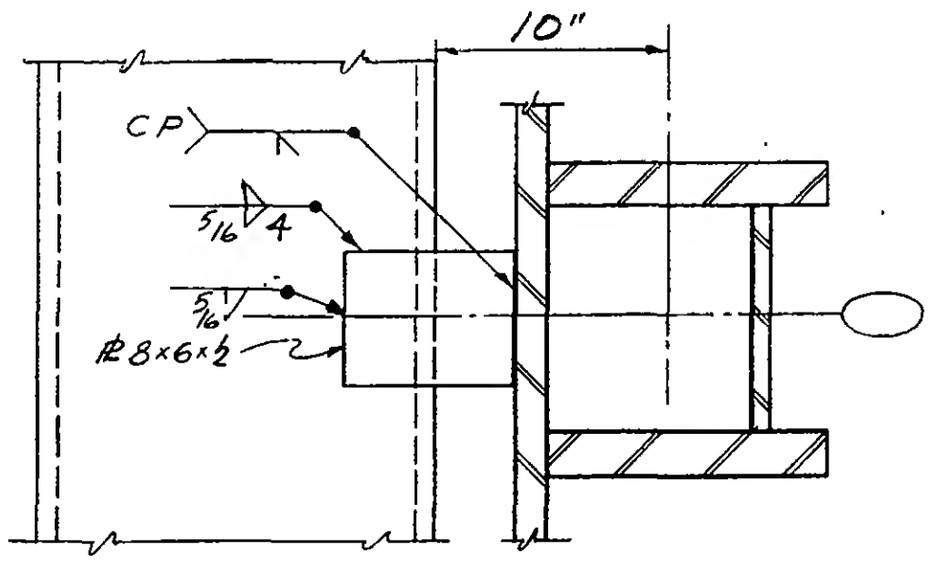
7-14-69



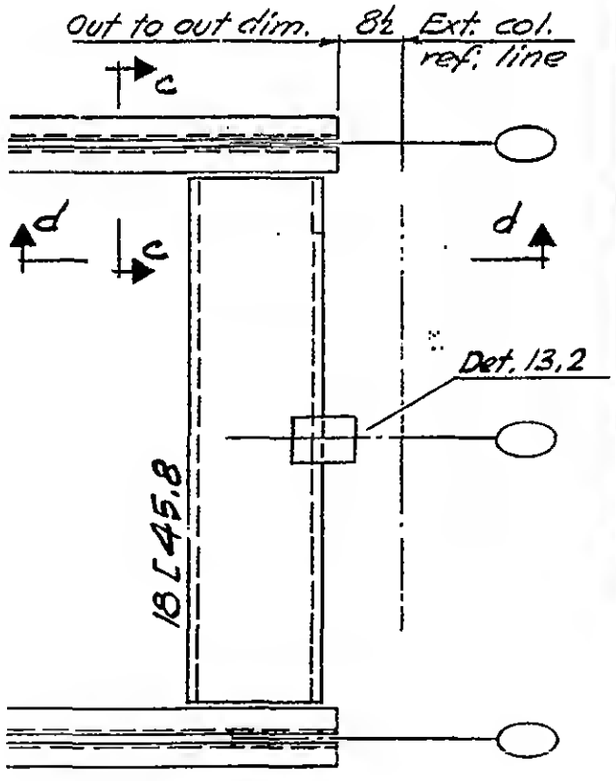
Section c-c



Section d-d



Detail 13.2



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LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang
DRAWN J. Gricius
REVIEWED W. Brower

R.

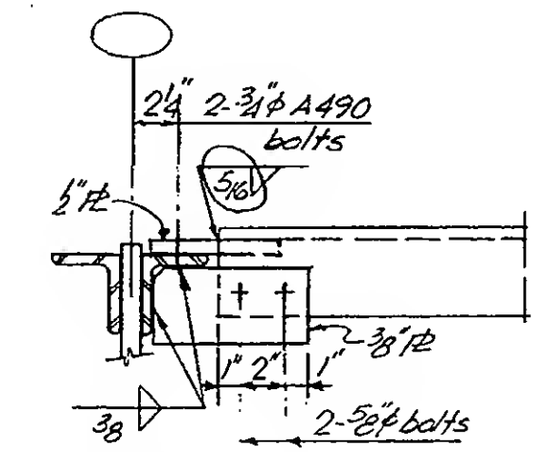
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SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

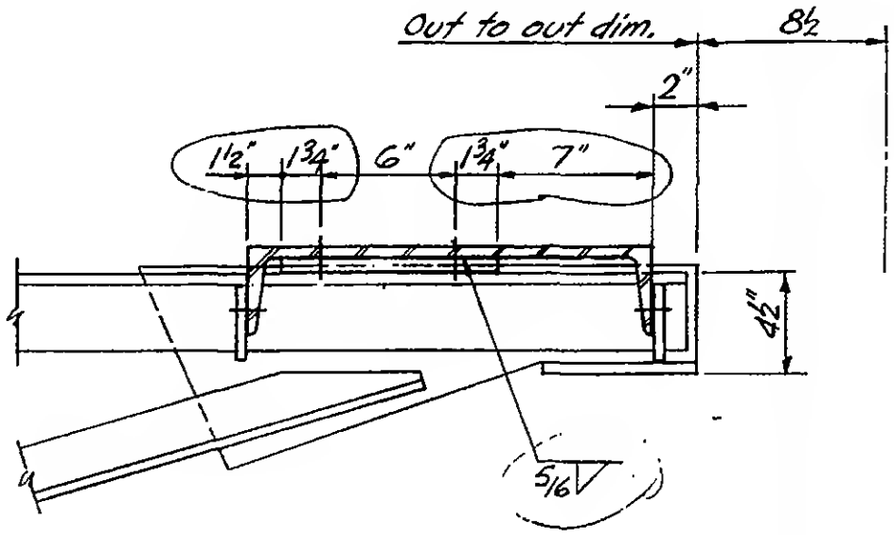
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 13.3 | DATE: 3-19-69

REVISIONS

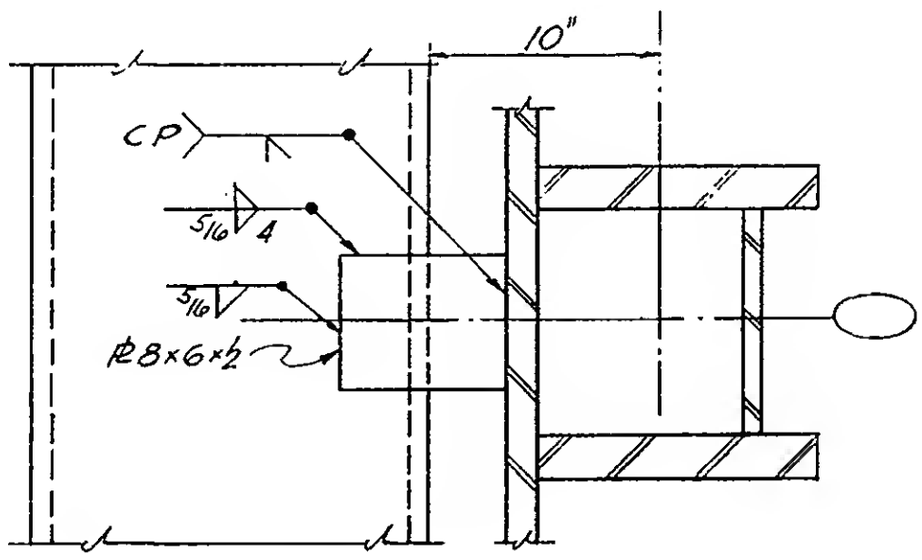
7-14-69



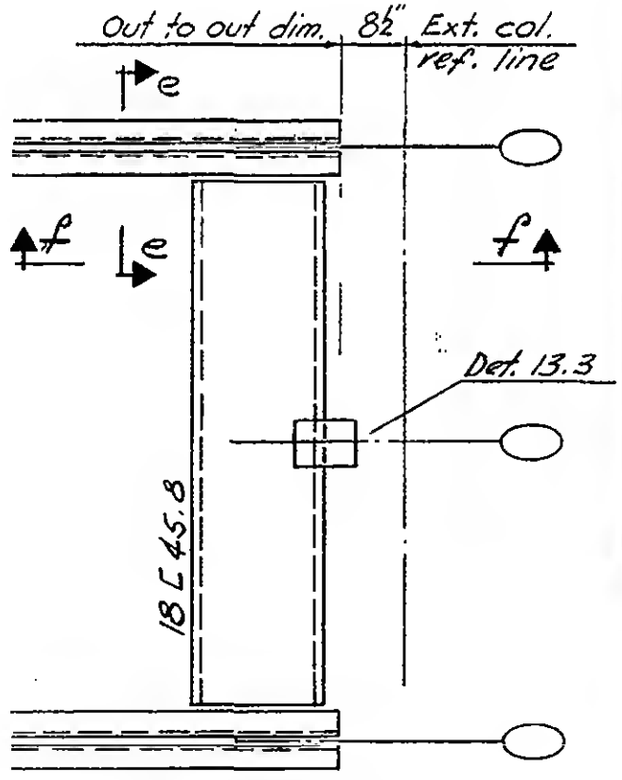
Section e-e



Section f-f



Detail 13.3



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REVIEWED C. Brewer

7-B8-13.3

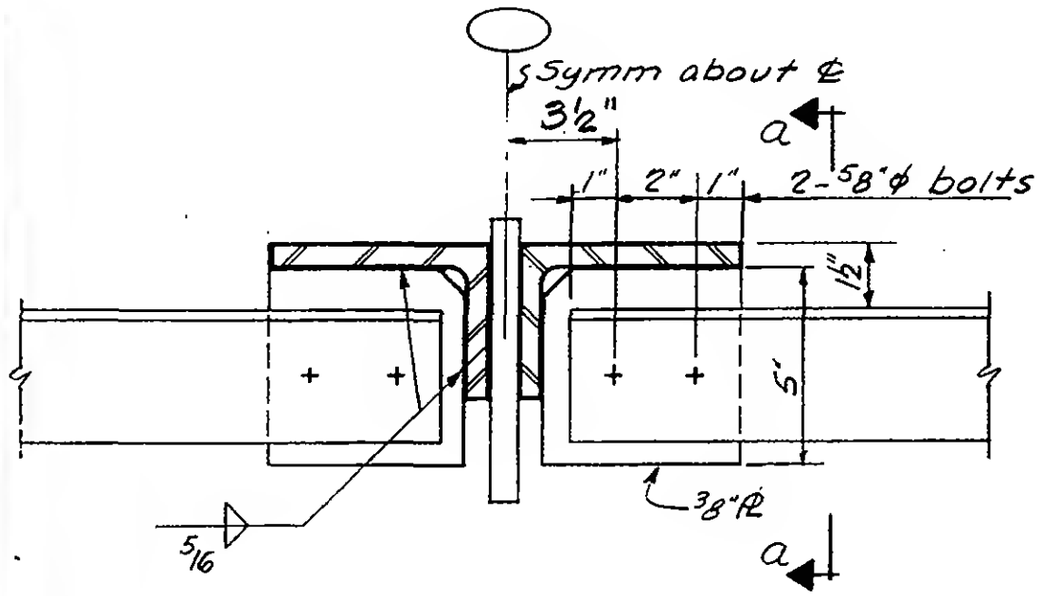
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

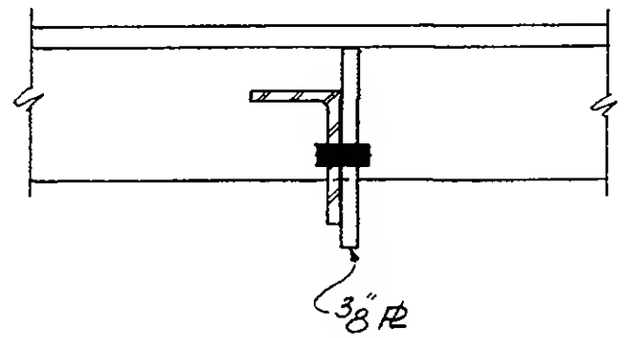
PROJECT: THE WORLD TRADE CENTER

TITLE: FLOOR TRUSS DETAIL 14.1

DATE: 3-19-69

REVISIONS





Section a-a

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED K. Hwang

DRAWN J. Gricius

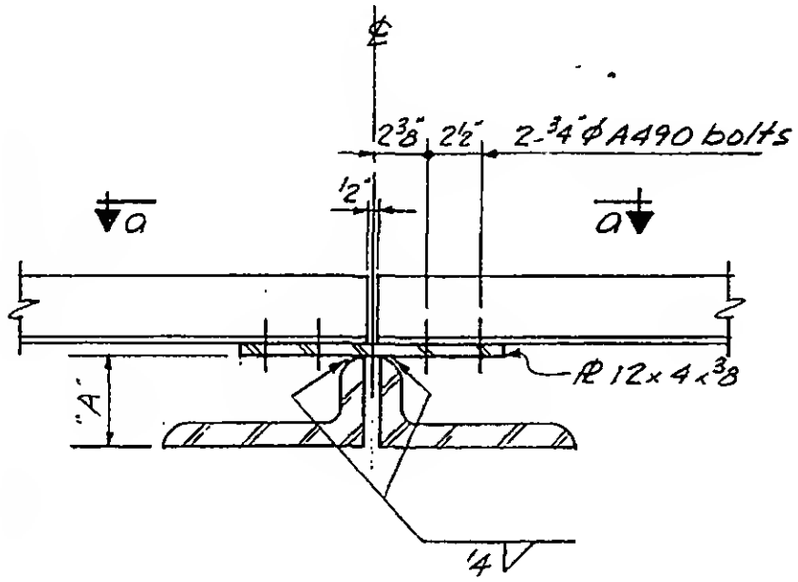
REVIEWED W. Brewer

7-B8-14.1

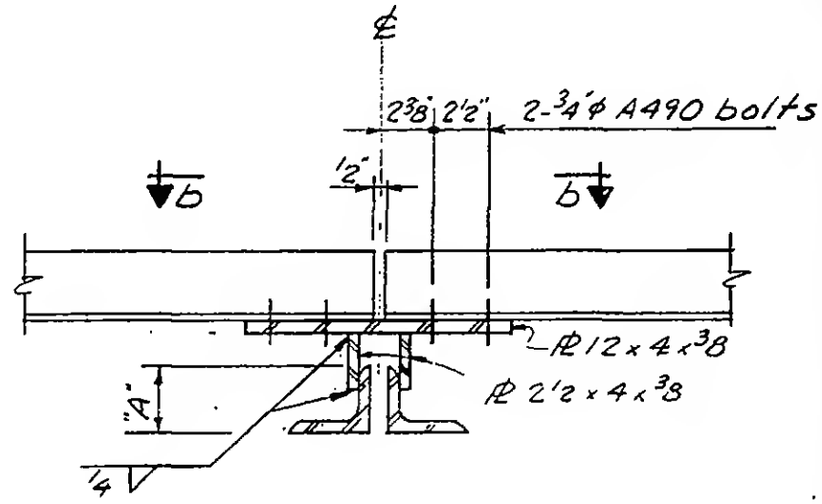
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 15.1 | DATE: 3-19-69

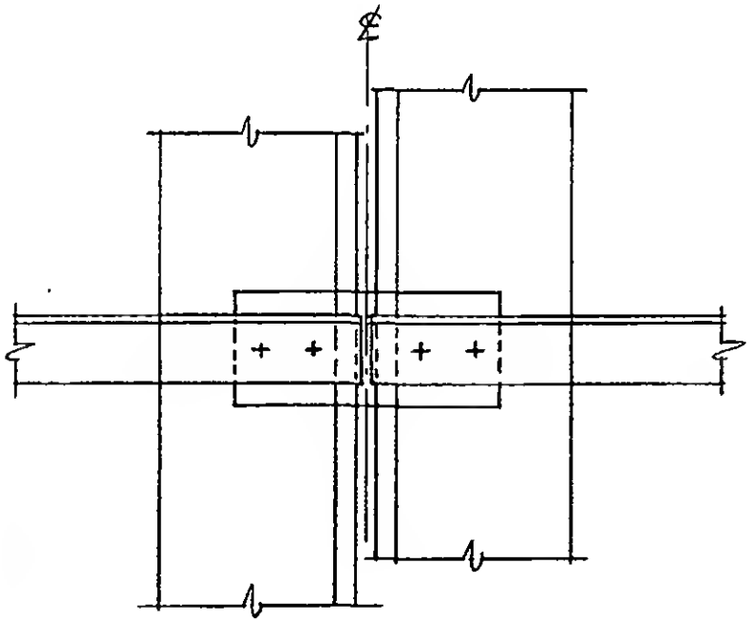
REVISIONS



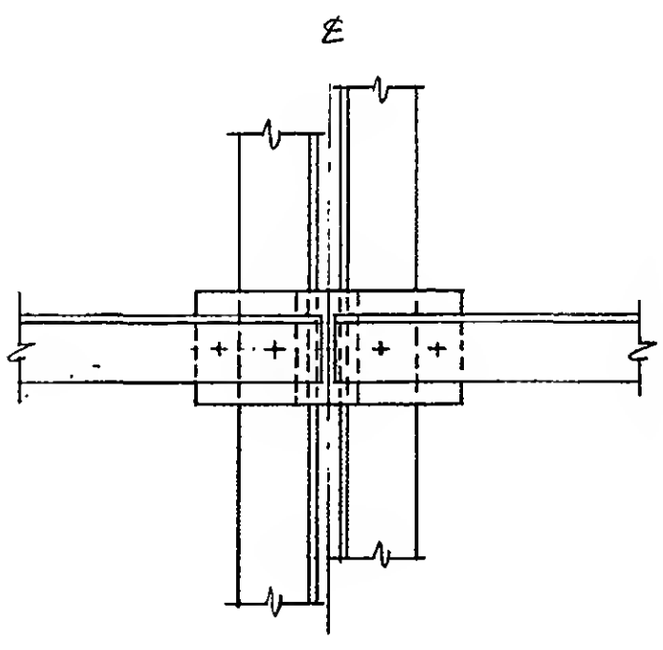
DETAIL 15.1 For A = 4" Min



DETAIL 15.1 For A < 4"



Section a-a



Section b-b

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

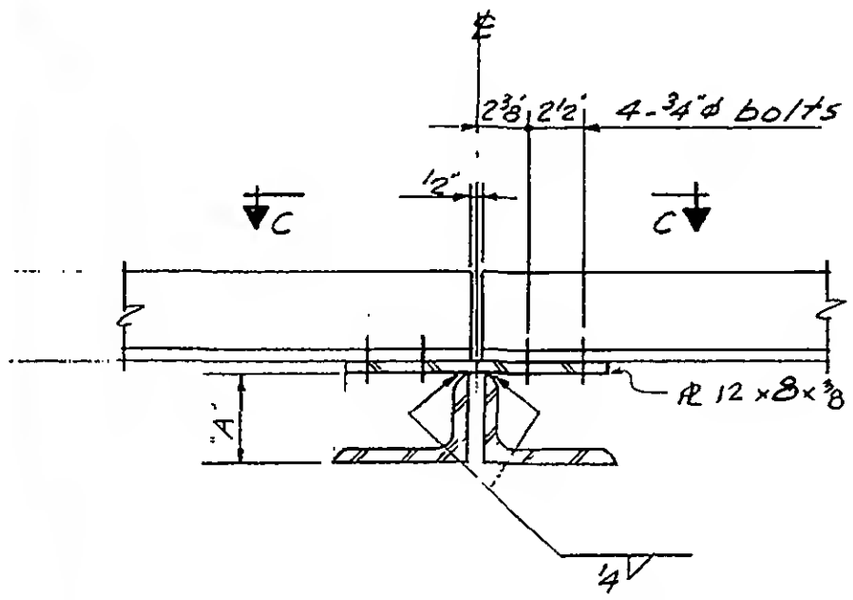
DESIGNED K. Hwang
DRAWN A.L. FRANQUI
REVIEWED W Brewer

7-B8-15.1

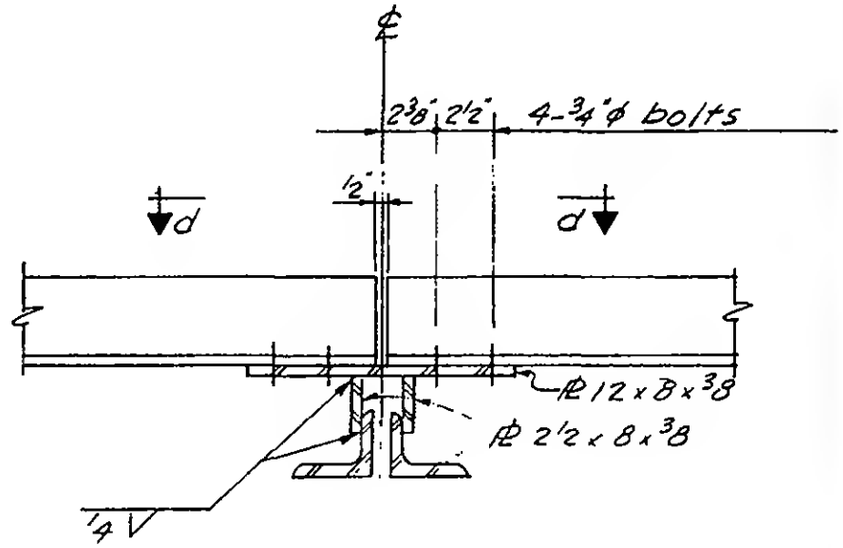
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS DETAIL 15.2 | DATE 3-19-69

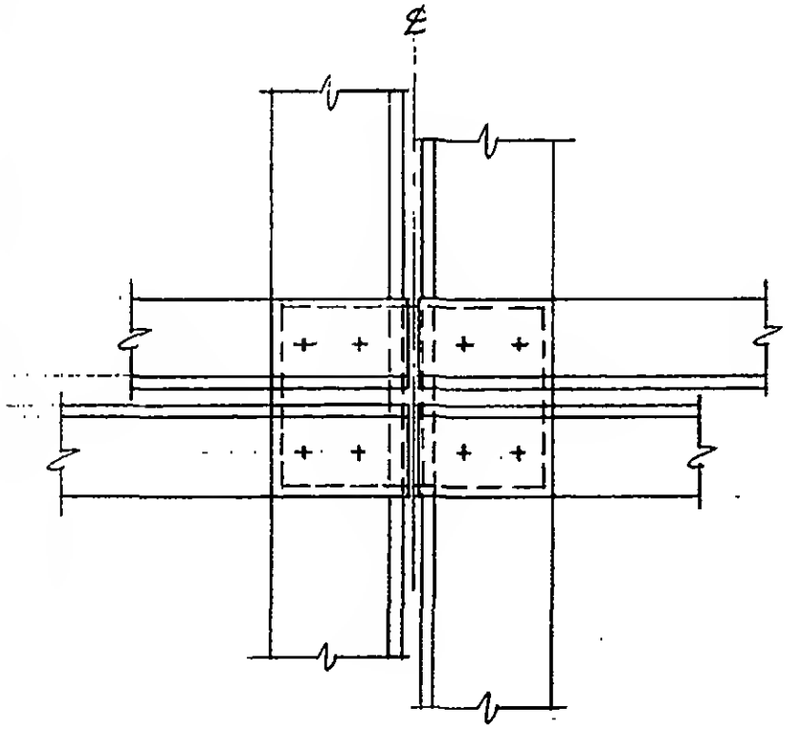
REVISIONS



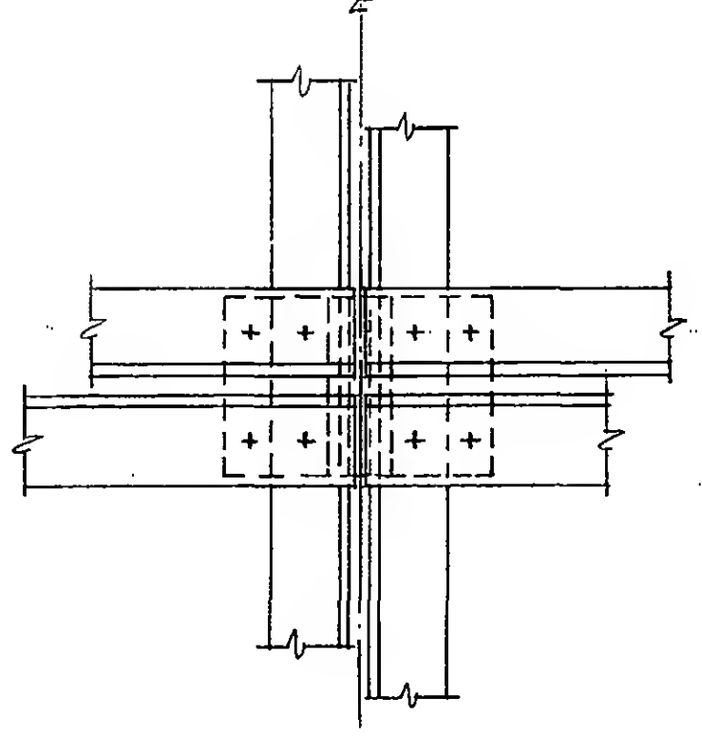
DETAIL 15.2 For A = 4" Min



DETAIL 15.2 For A < 4"



Section C-C



Section d-d

LICENSED PROFESSIONAL ENGINEER
LESLIE E. ROBERTSON
No. 34360
UNIVERSITY OF THE STATE OF NEW YORK

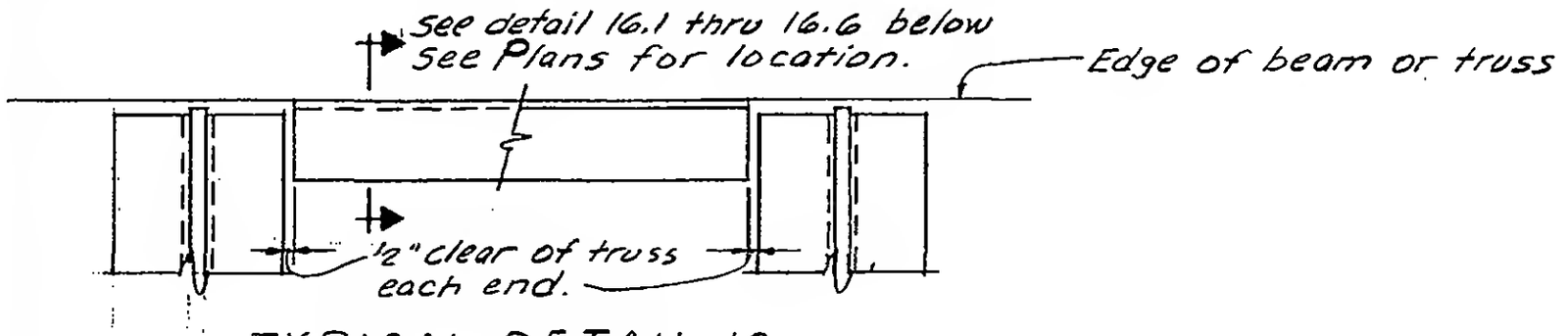
DESIGNED K. Hwang
DRAWN A.L. FRANQUI
REVIEWED W. Brewer

7-B8-15.2

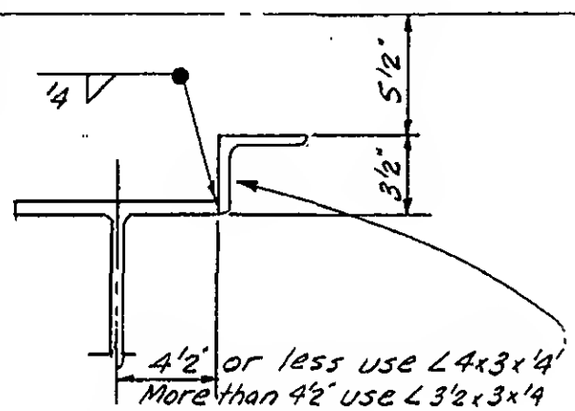
SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS DETAIL 16.1-16.6 | DATE: 3-19-69

REVISIONS

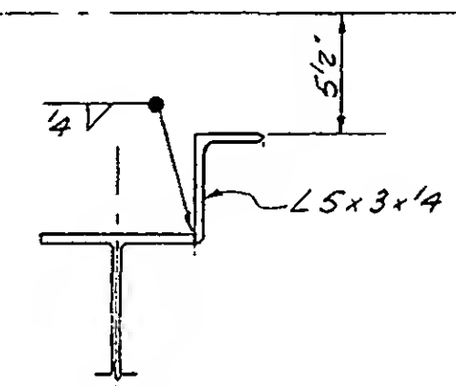


TYPICAL DETAIL 16



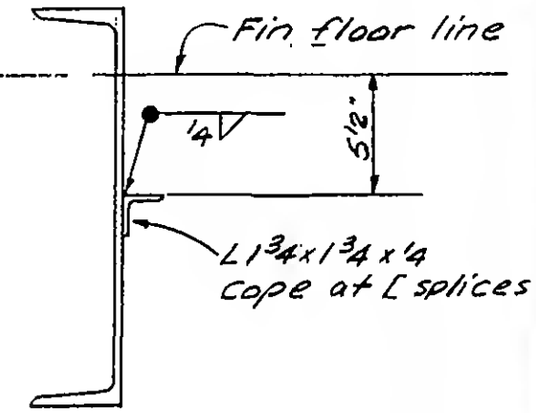
Detail 16.1

Typical East & West core perimeter floors 10, 11 & 12



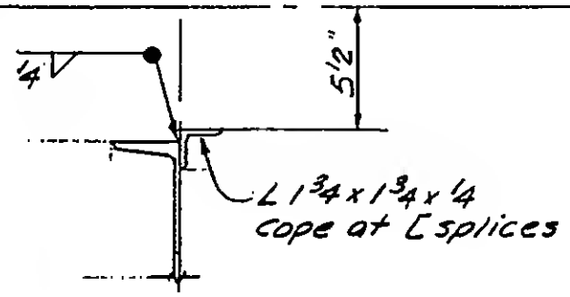
Detail 16.2

Typical South core perimeter floors 10, 11 & 12



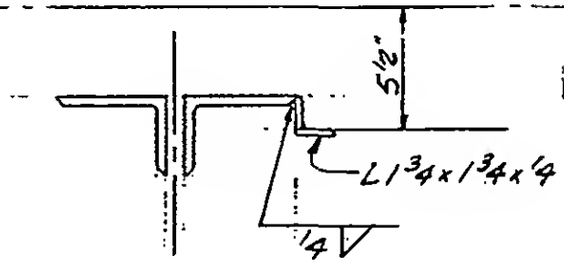
Detail 16.3

Typical East & West core perimeter floor 13



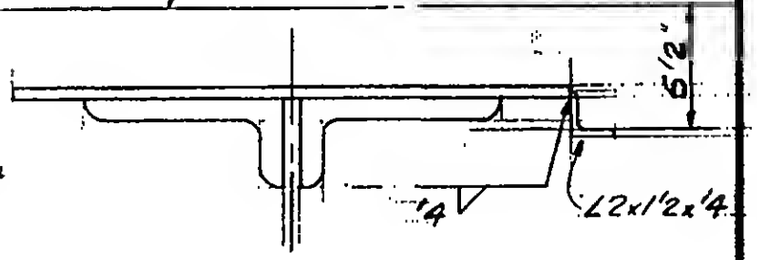
Detail 16.4

Typical North & South core perimeter floor 13



Detail 16.5

Typical trusses 29T6, T9 & T24



Detail 16.6

Typical trusses 29T5

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED

DRAWN A.L. FRANQUI

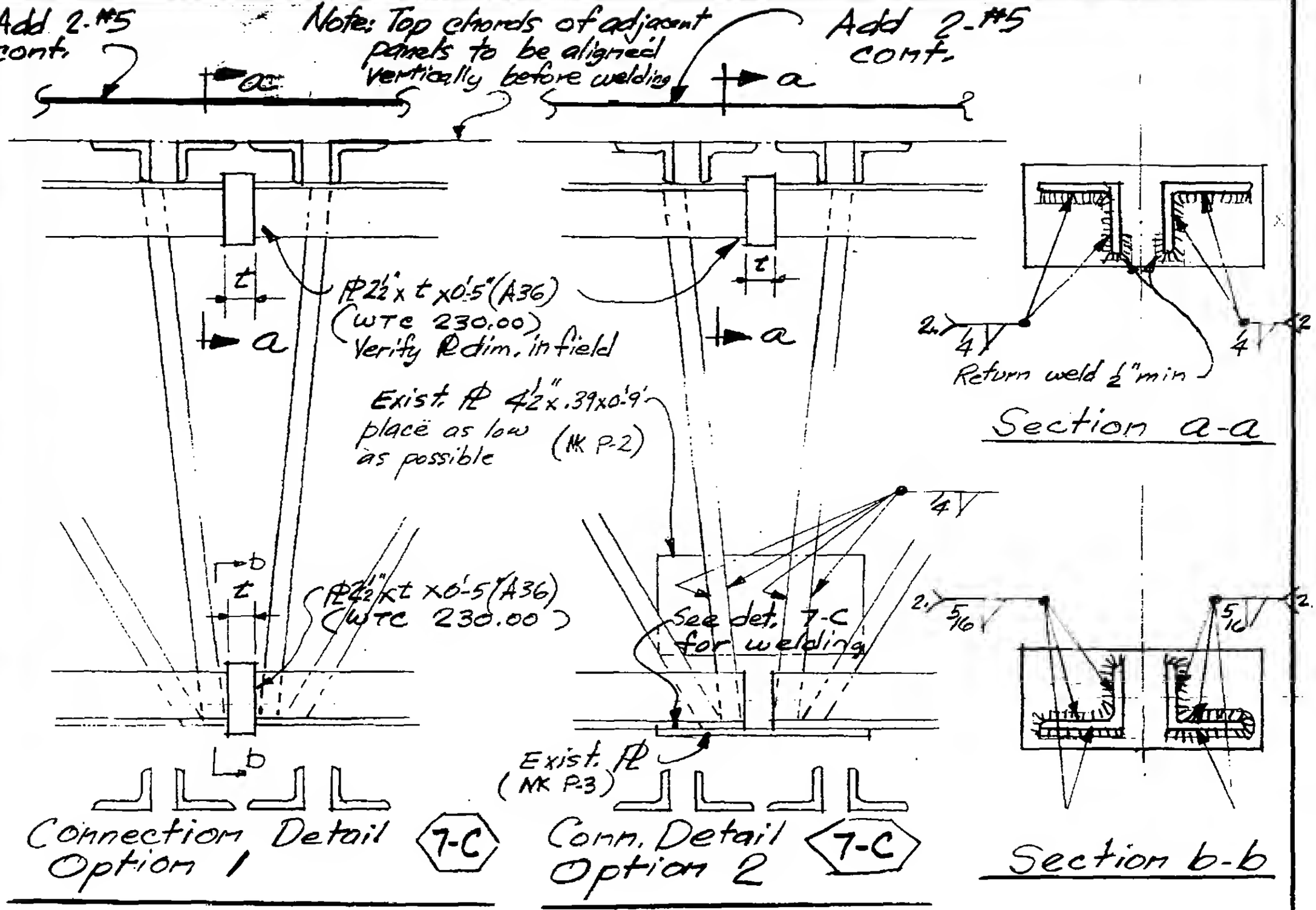
REVISED W. Brewer R.

7-B8-16.1

SKILLING HELLE CHRISTIANSEN ROBERTSON — Structural & Civil Engineers

PROJECT: [illegible] CENTER | TITLE: FLOOR TRUSSES CONNECTION DETAILS | DATE: 5/15/69

REVISIONS

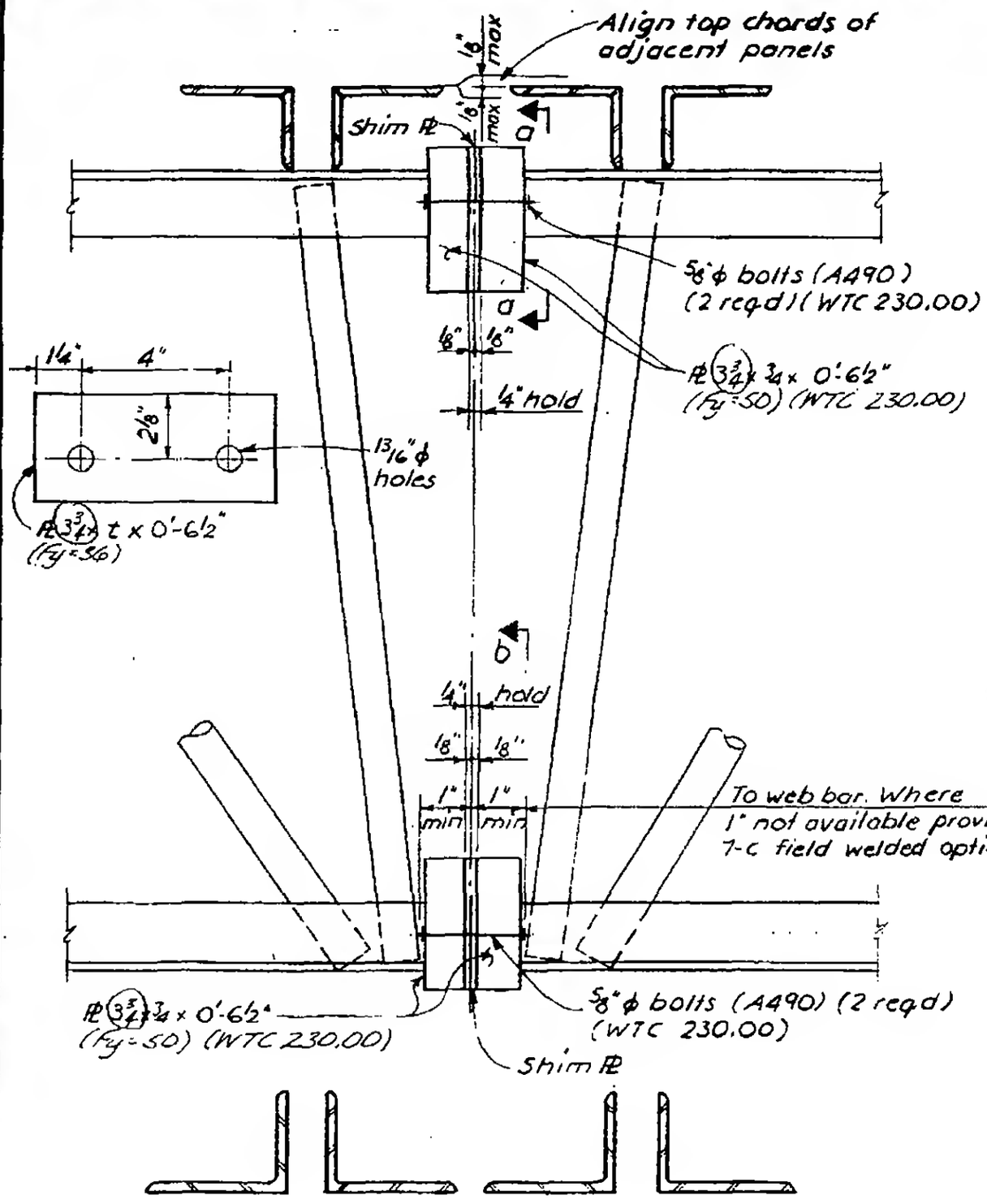


Notes: 1. "t" to be determined from field measurements (t = 1" ±)
2. Use E80xx electrodes for field welds indicated.

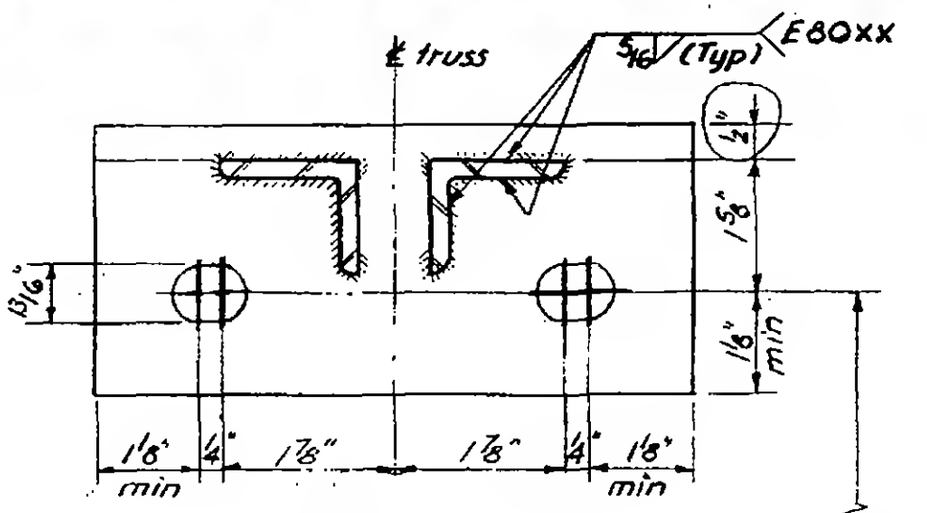
DESIGNED E.C
DRAWN
REVIEWED W.B

7-C/1

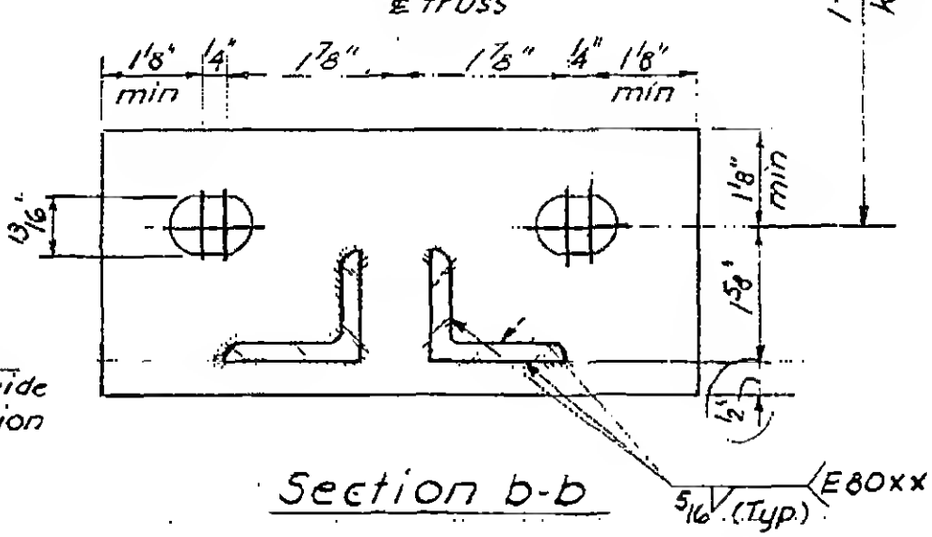
REVISIONS
5-29-69
6-13-69



Conn Detail 7-c



Section a-a



Section b-b

Notes:

1. Provide hardened washers under both bolt head and nut.
2. Provide shim stock in both 3/16" and 1/8" nominal sizes.

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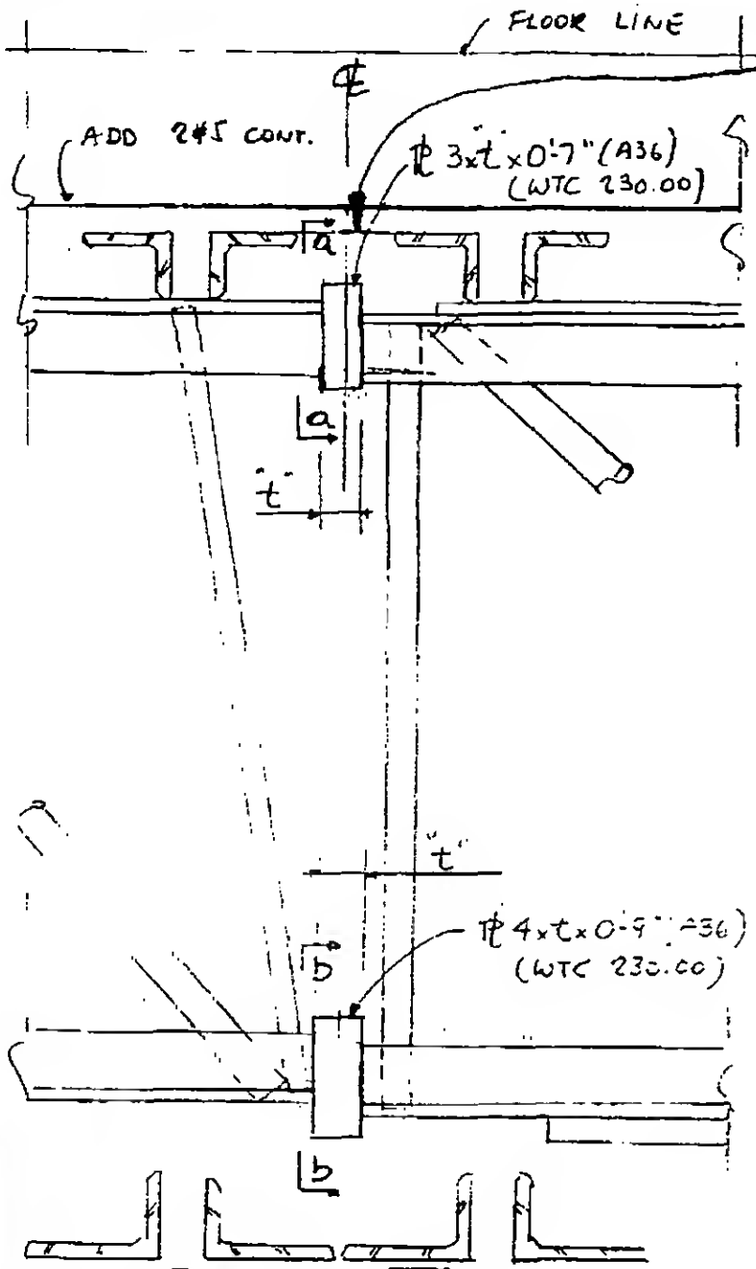
DESIGNED H Roet
DRAWN J. Smith
REVIEWED W. Brewer

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

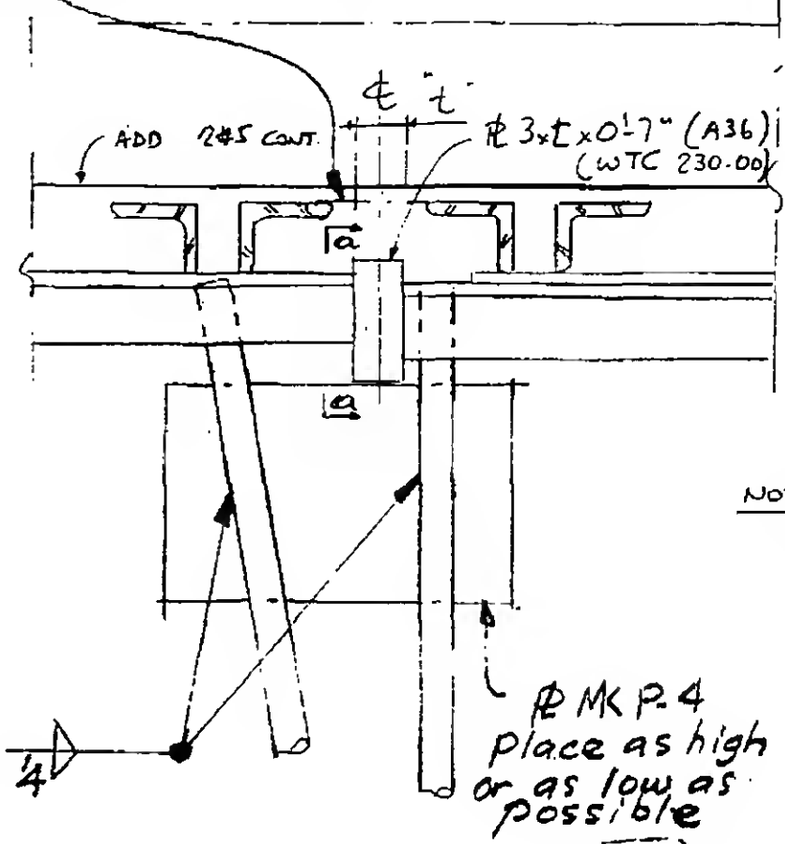
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS CONNECTION DETAILS | DATE: 5-14-69

REVISIONS

Note: Top chords of adjacent panels to be aligned vert. before welding



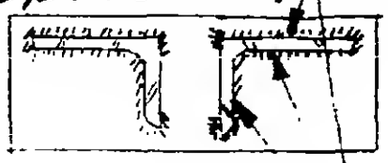
Conn. Detail Option 1 (8-C)



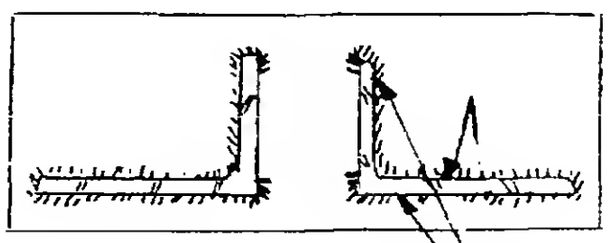
Conn. Detail Option 2 (8-C)

NOTES: 1. REMAINDER OF DETAILS AND PARTS NOT SHOWN SAME AS DETAIL 8-C, DWG. CD-202.

2. "t" TO BE DETERMINED FROM FIELD MEASUREMENTS.



SECTION a-a



SECTION b-b

E80XX Electrodes 1/4 (TYP.) ea. L

E80xx Electrodes 3/8 (TYP.) ea L

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DESIGNED

DRAWN

REVIEWED

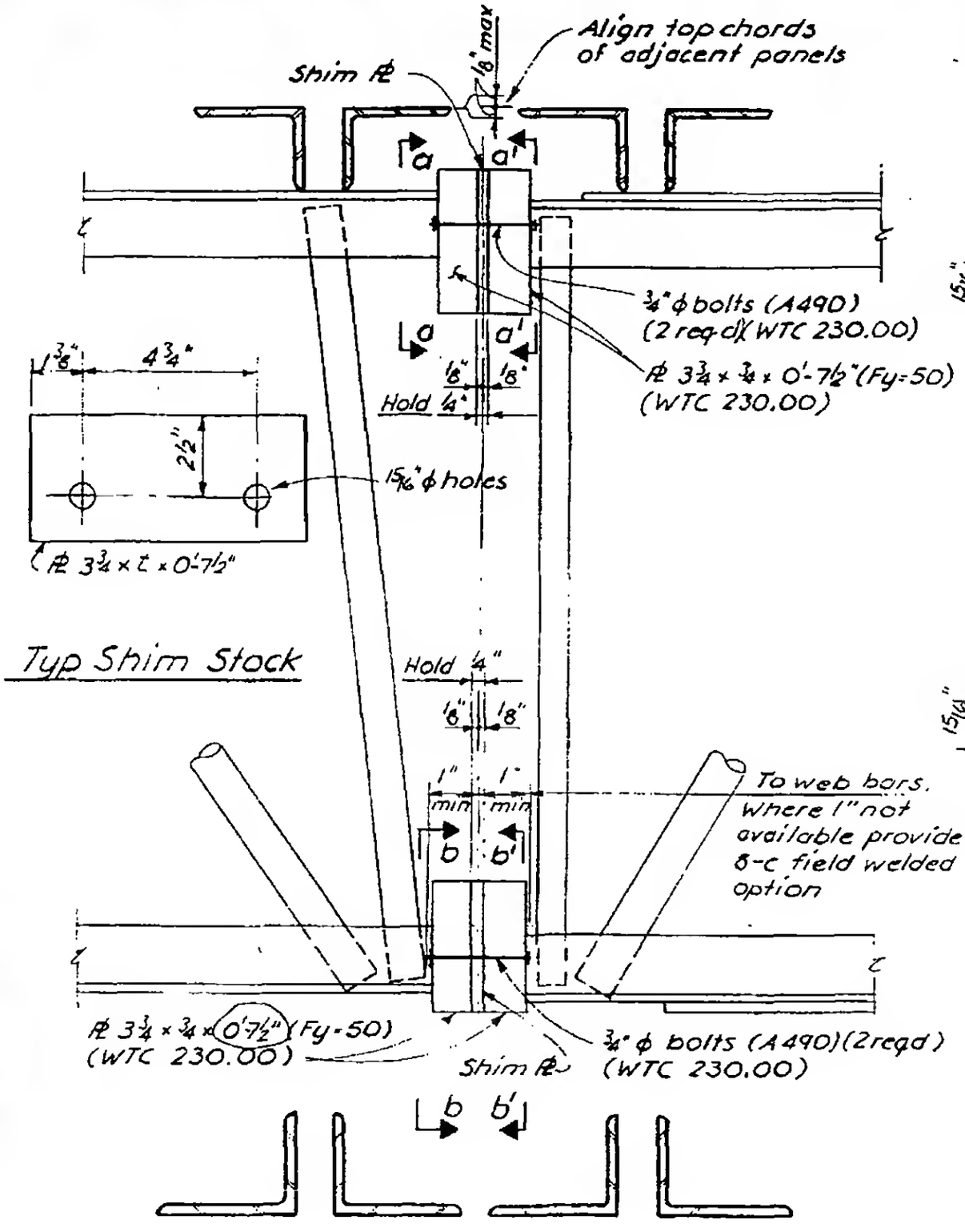
8-C/1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & C...

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS CONNECTION DETAIL | DATE: 12-6-68

REVISIONS

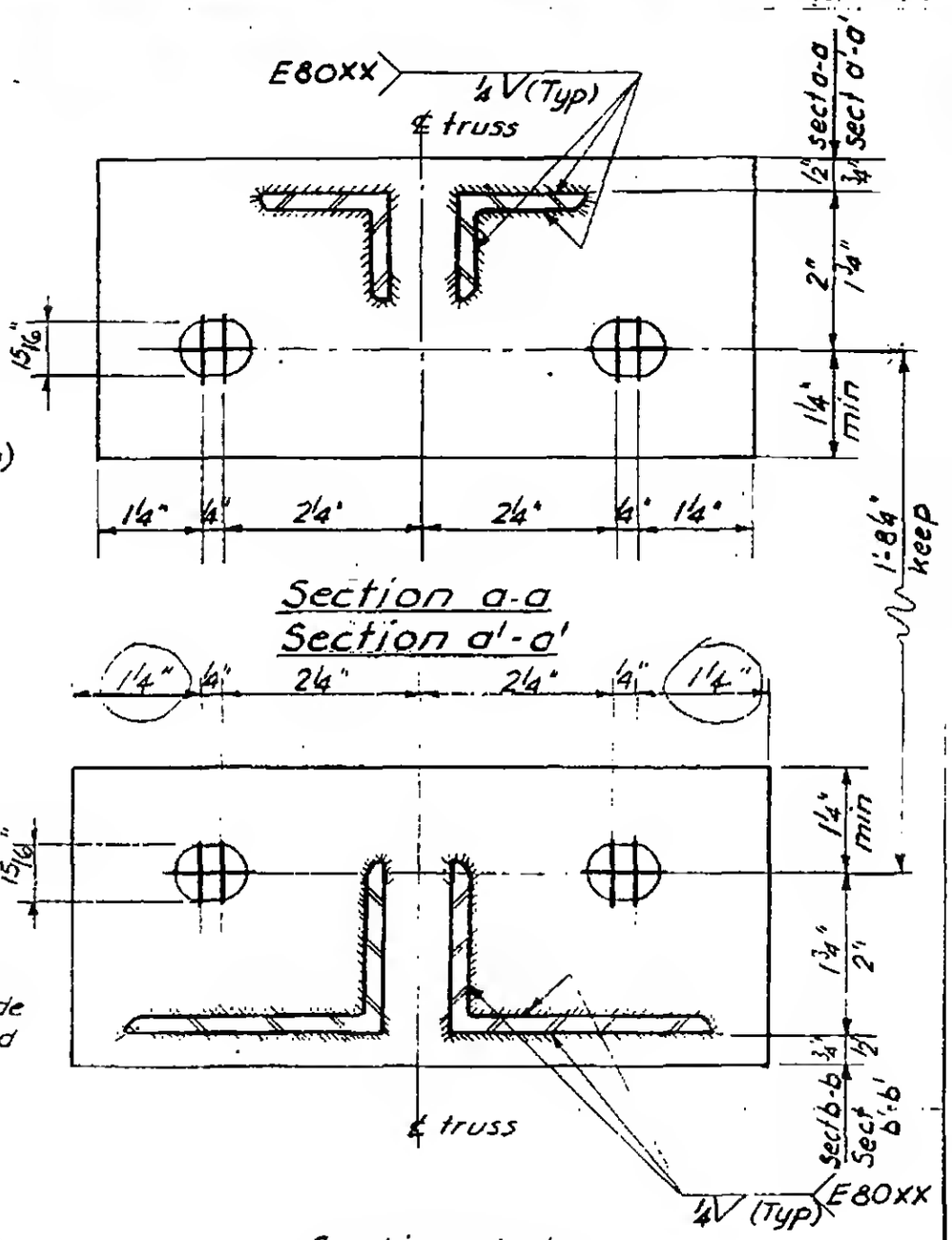
6/13/69



Typ Shim Stock

Conn Detail (8-c)

Field bolted option.



Section a-a

Section a'-a'

Section b-b

Section b'-b'

Notes:

1. Provide hardened washers under both bolt head and nut.
2. Provide shim stock in both 3/16" and ⅛" nominal sizes.

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED: I. Roet

DRAWN: F. Smith

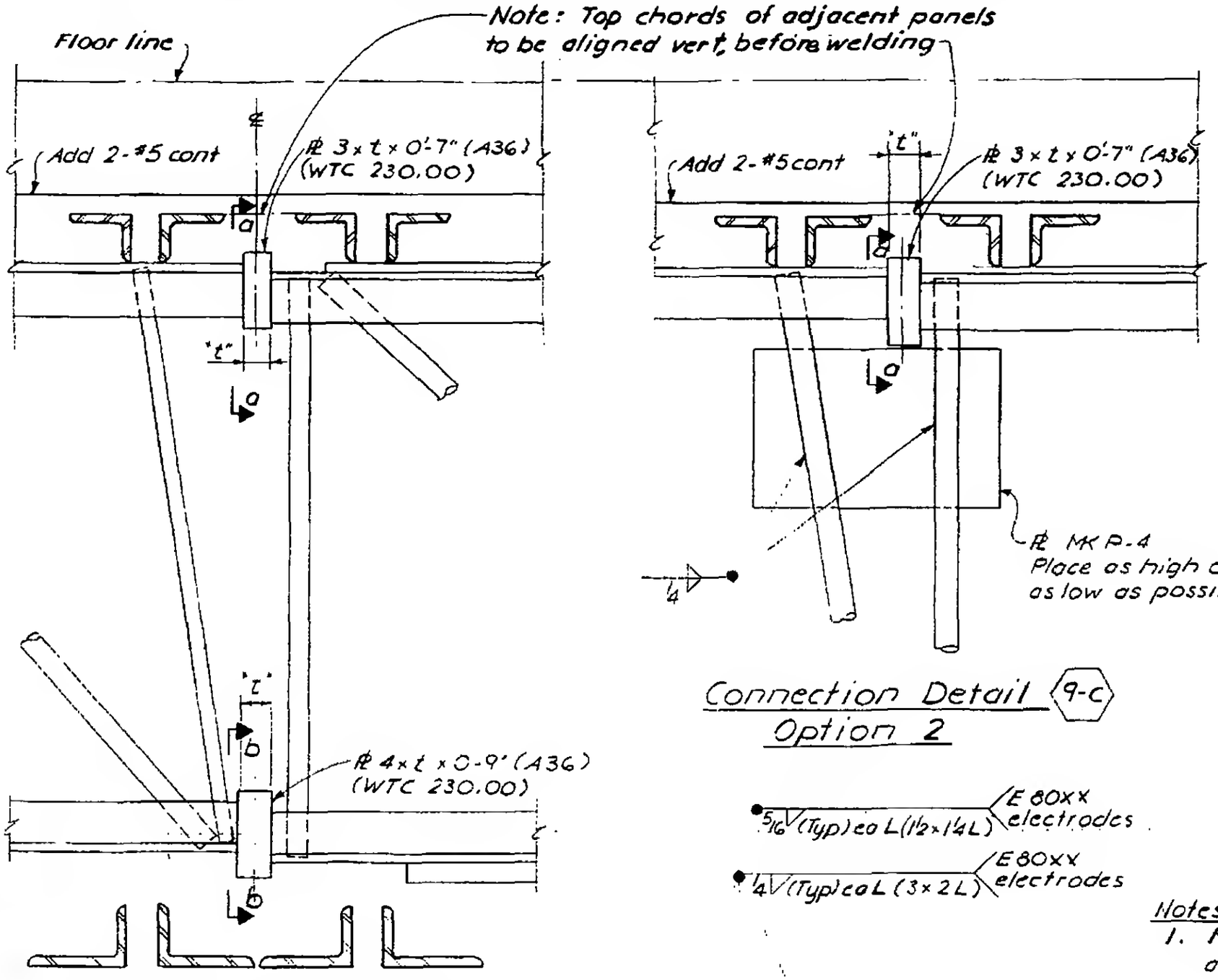
REVIEWED: W. Brewer

8-C/2

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

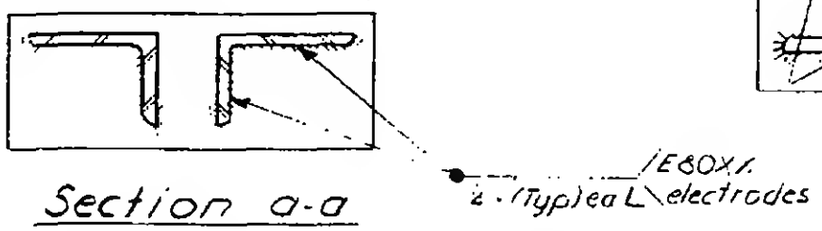
PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS CONNECTION DETAILS | DATE 3-26-69

REVISIONS

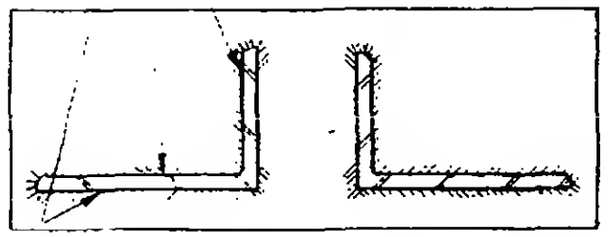


Connection Detail 9-c Option 1

Connection Detail 9-c Option 2



Section a-a



Section b-b

Notes:
1. Remainder of details and parts not shown same as Detail 9-C, Dwg CD-203.
2. "t" to be determined from field measurements.

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED

DRAWN F. Smith

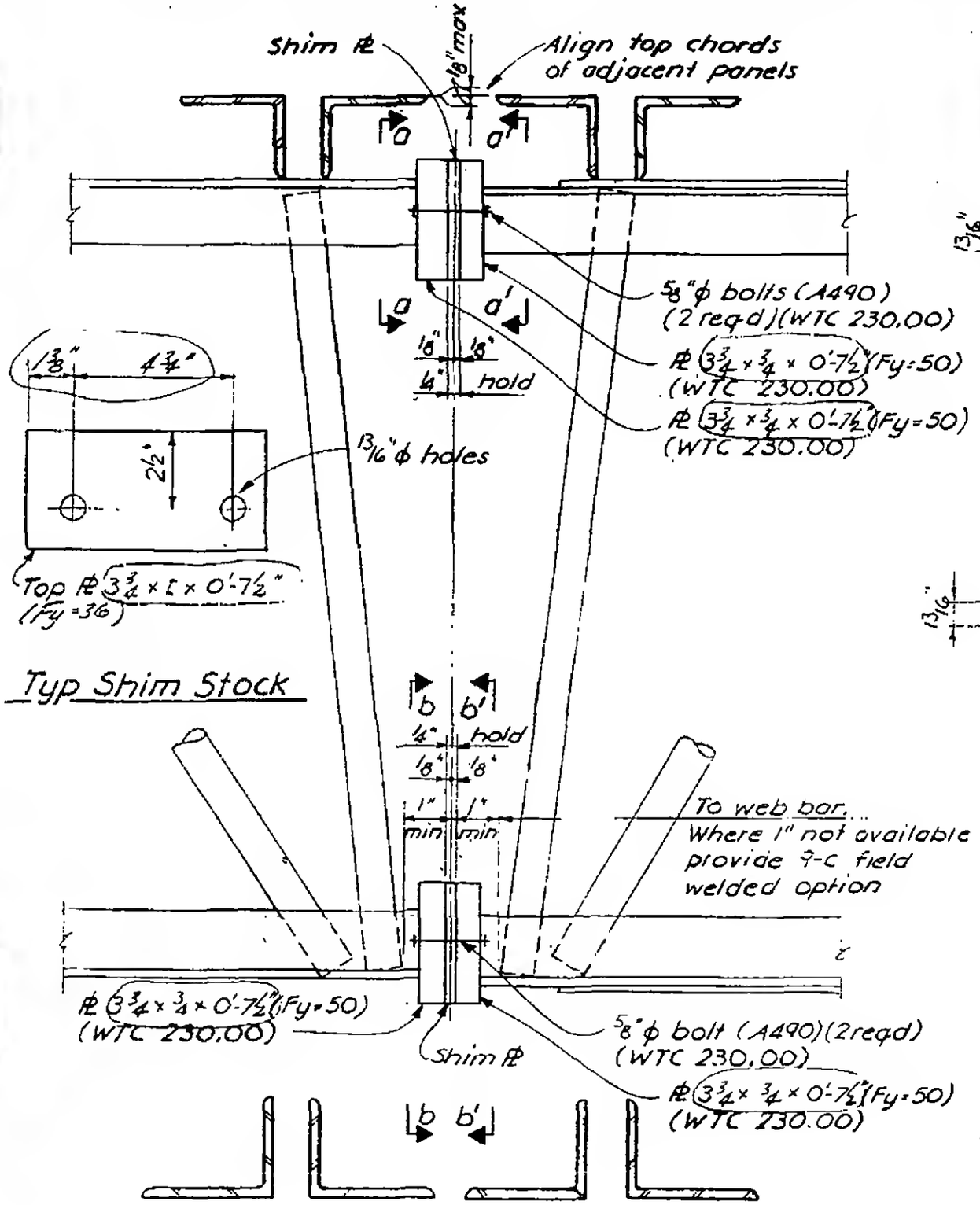
REVIEWED

9 - C/1

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

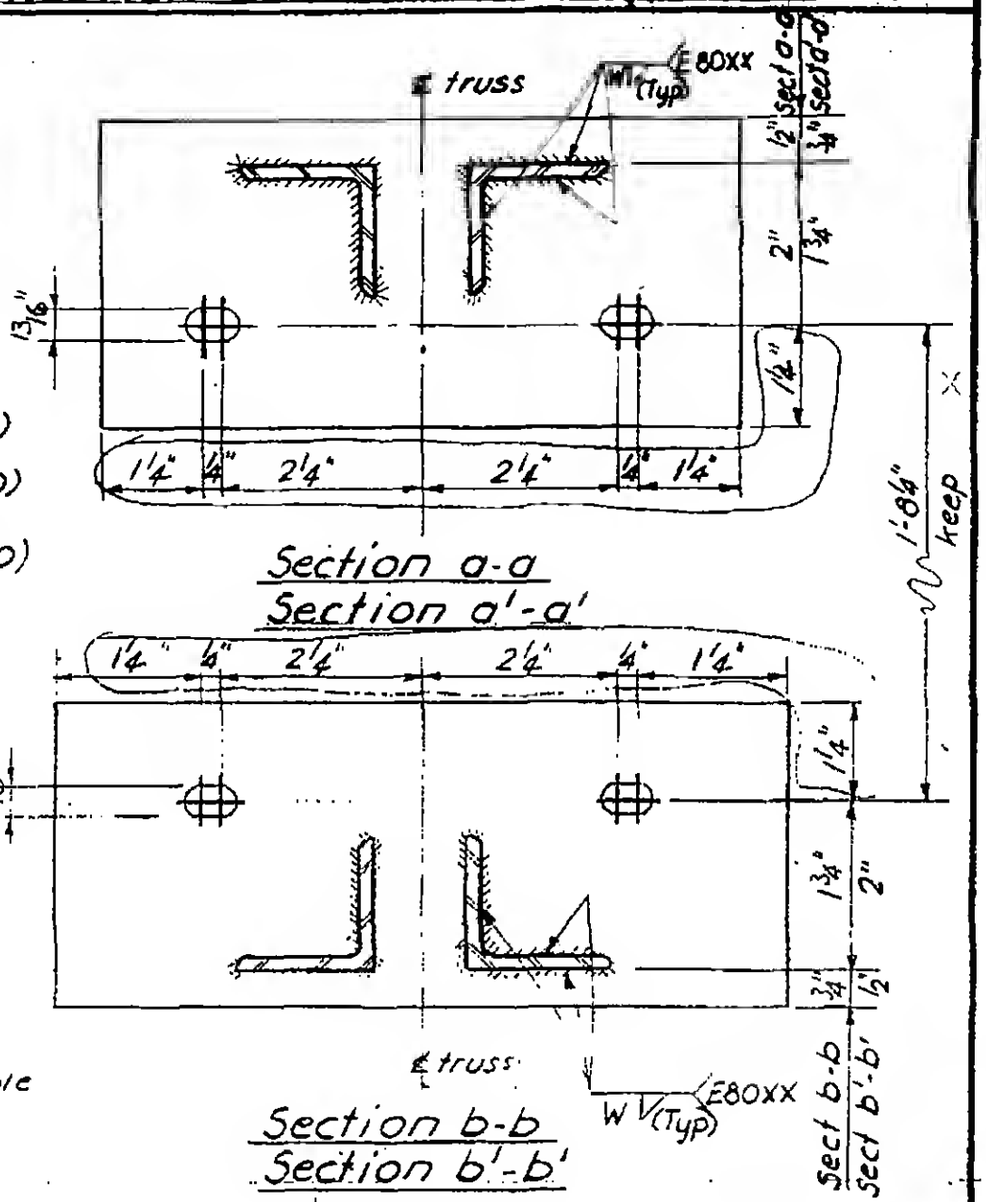
PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS CONNECTION DETAIL | DATE: 5-29-69

REVISIONS
6/13/69



Conn Detail (9-c)

Field bolted option.



Section	a-a	a'-a'	b-b	b'-b'
W	5/16	1/4	5/16	1/4

Notes:

1. Provide hardened washers under both bolt head and nut.
2. Provide shim stock in both 3/16" and 1/8" nominal sizes.

LICENSED PROFESSIONAL ENGINEER — LESLIE E. ROBERTSON — No. 34360 — UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED: Roet
DRAWN: F. Smith
REVIEWED: W Brewer

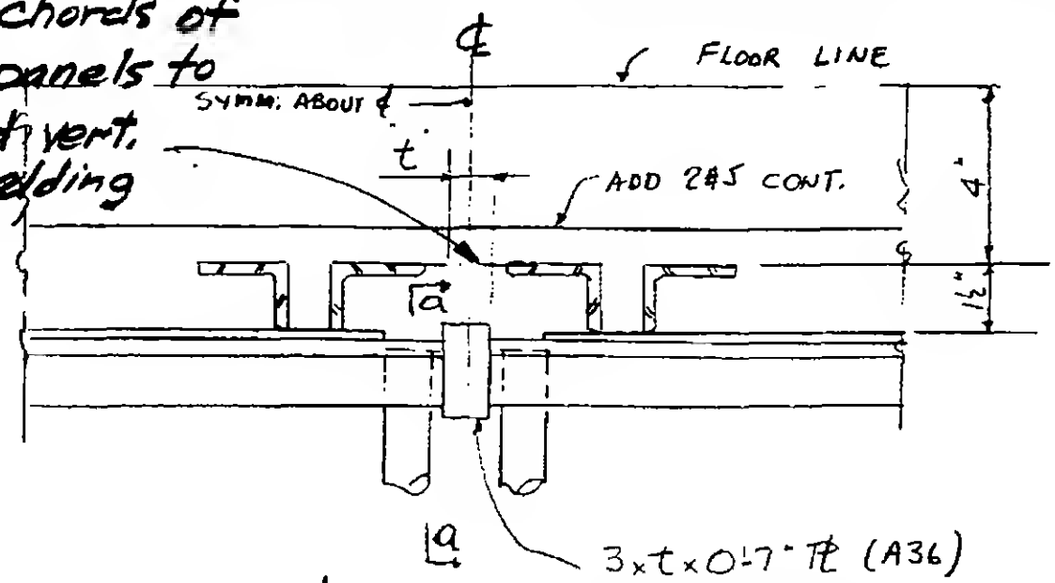
9 - c/2

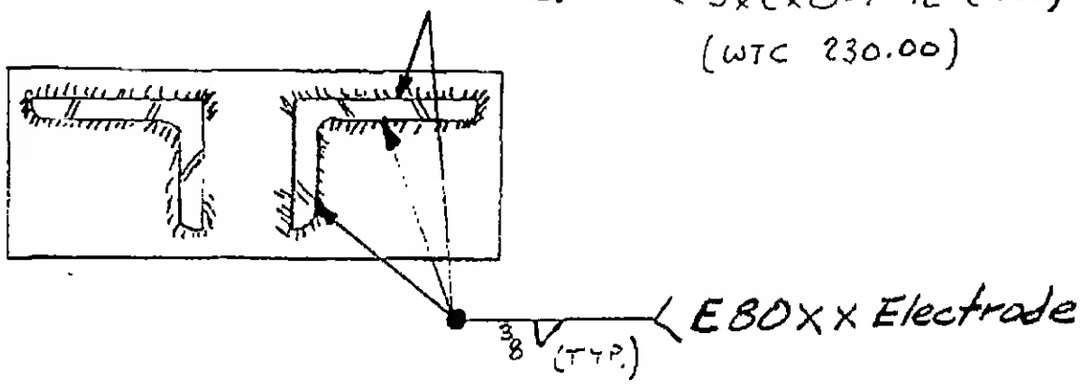
SKILLING - HELLE - CHRISTIANSEN - ROBERTSON — Structural & Civil Engineers

PROJECT The World Trade Center | TITLE FLOOR TRUSS CONNECTION DETAILS | DATE 5-14-64

REVISIONS

Note: Top chords of adjacent panels to be aligned vert. before welding





SECTION a-a

NOTES: 1. REMAINDER OF DETAIL AND PARTS NOT SHOWN SAME AS DETAIL 10-C, DWG. CD-202.
2. "t" TO BE DETERMINED FROM FIELD MEASUREMENTS.

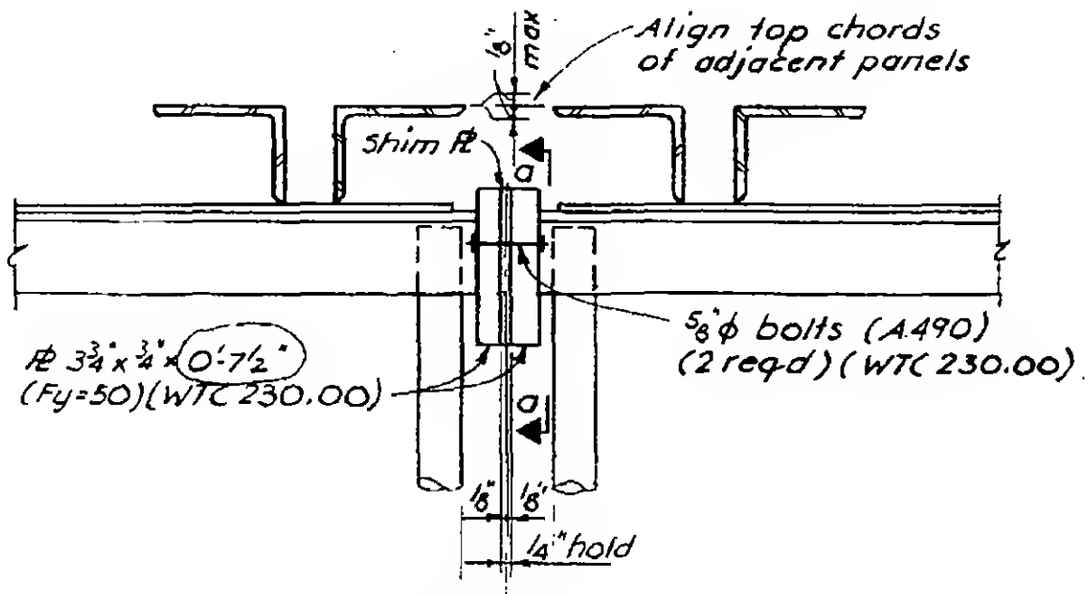
CONNECTION DETAIL 10-C
Option

SKILLING, HELLE, CHRISTIANSEN, ROBERTSON — Structural & Civil Engineers

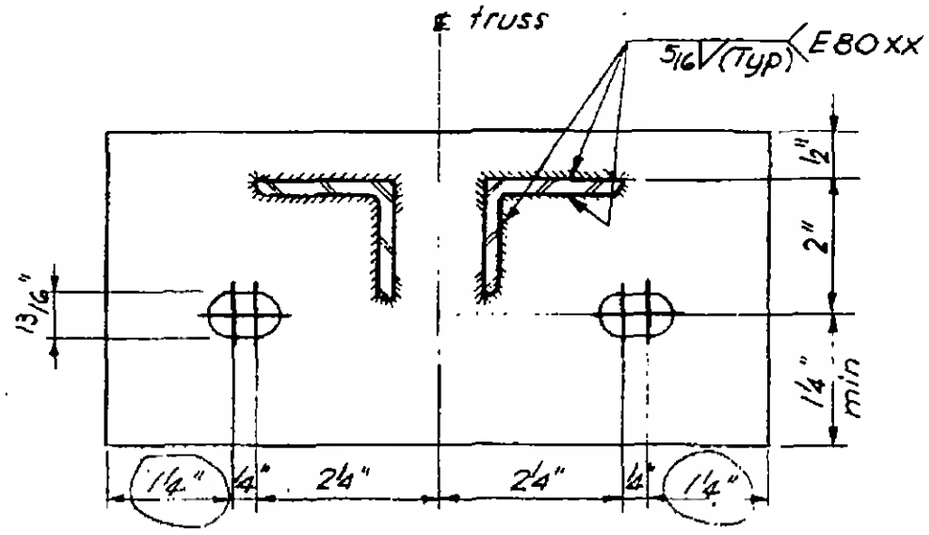
PROJECT THE WORLD TRADE CENTER | TITLE FLOOR TRUSS CONNECTION DETAIL | DATE 5-29-69

REVISIONS

6/13/69



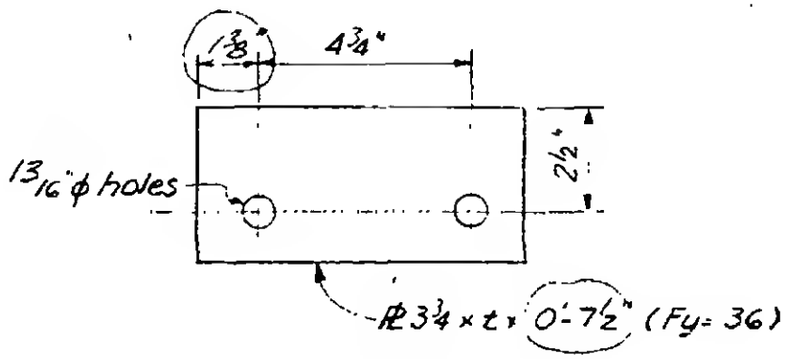
Note: For bot chord See basic connection 10c.



Section a-a

Conn Detail (10c)

Field bolted option



Typ Shim Stock

Notes

1. Provide hardened washers under both bolt head and nut.
2. Provide shim stock in both 3/16" and 1/8" nominal sizes.

LICENSED PROFESSIONAL ENGINEER LESLIE E. ROBERTSON No. 34360 UNIVERSITY OF THE STATE OF NEW YORK

DESIGNED I Roet

DRAWN F. Smith

REVIEWED W. Brewer

10 - c/2

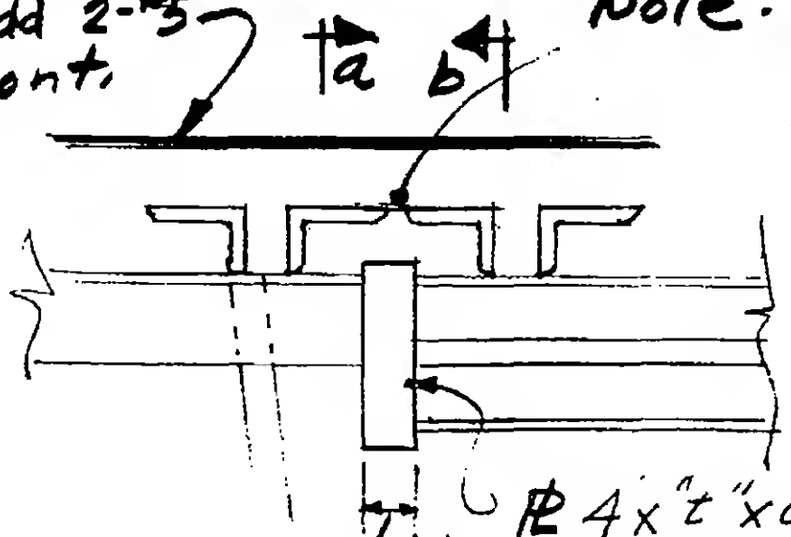
SKILLING - [illegible] - CONNECTION

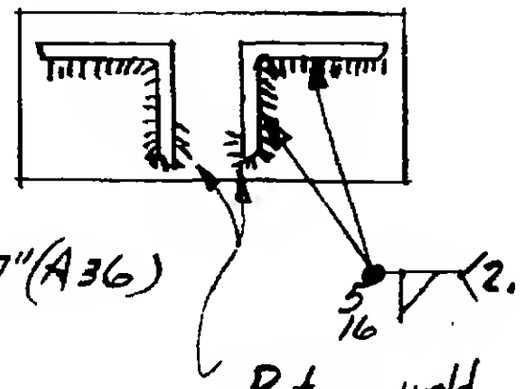
PROJECT THE [illegible] CENTER — FLOOR TRUSS CONNECTION DETAIL — 5/14/69

REVISIONS

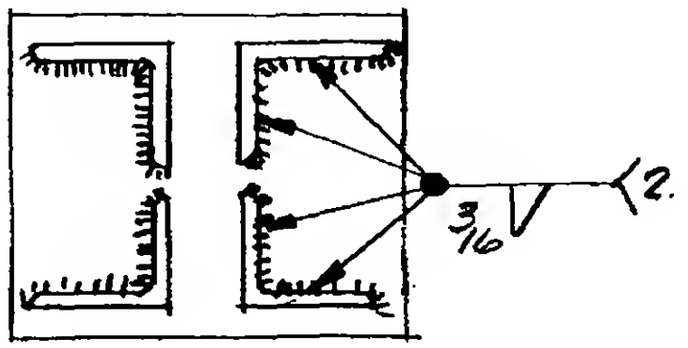
Add 2-#5 Cont.

Note: Top chords of adjacent panels to be aligned vertically before welding

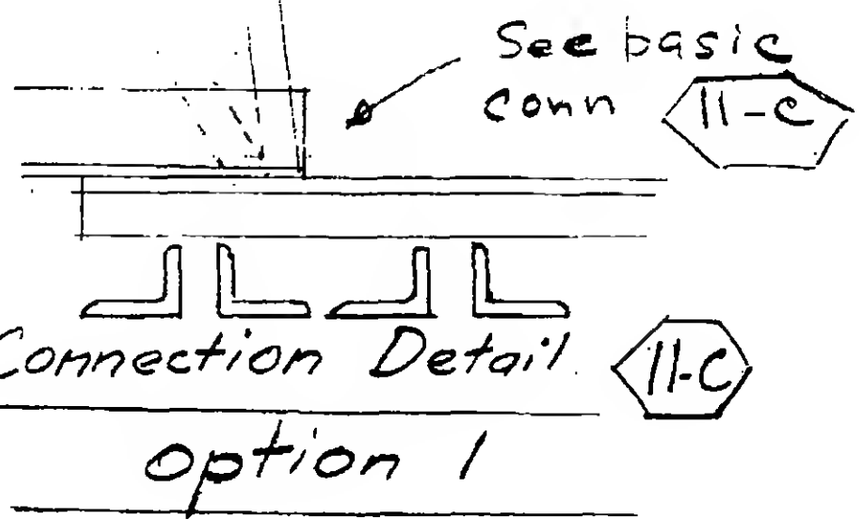




Section a-a



Section b-b



Connection Detail

option 1

Notes: 1. "t" to be determined from field measurement

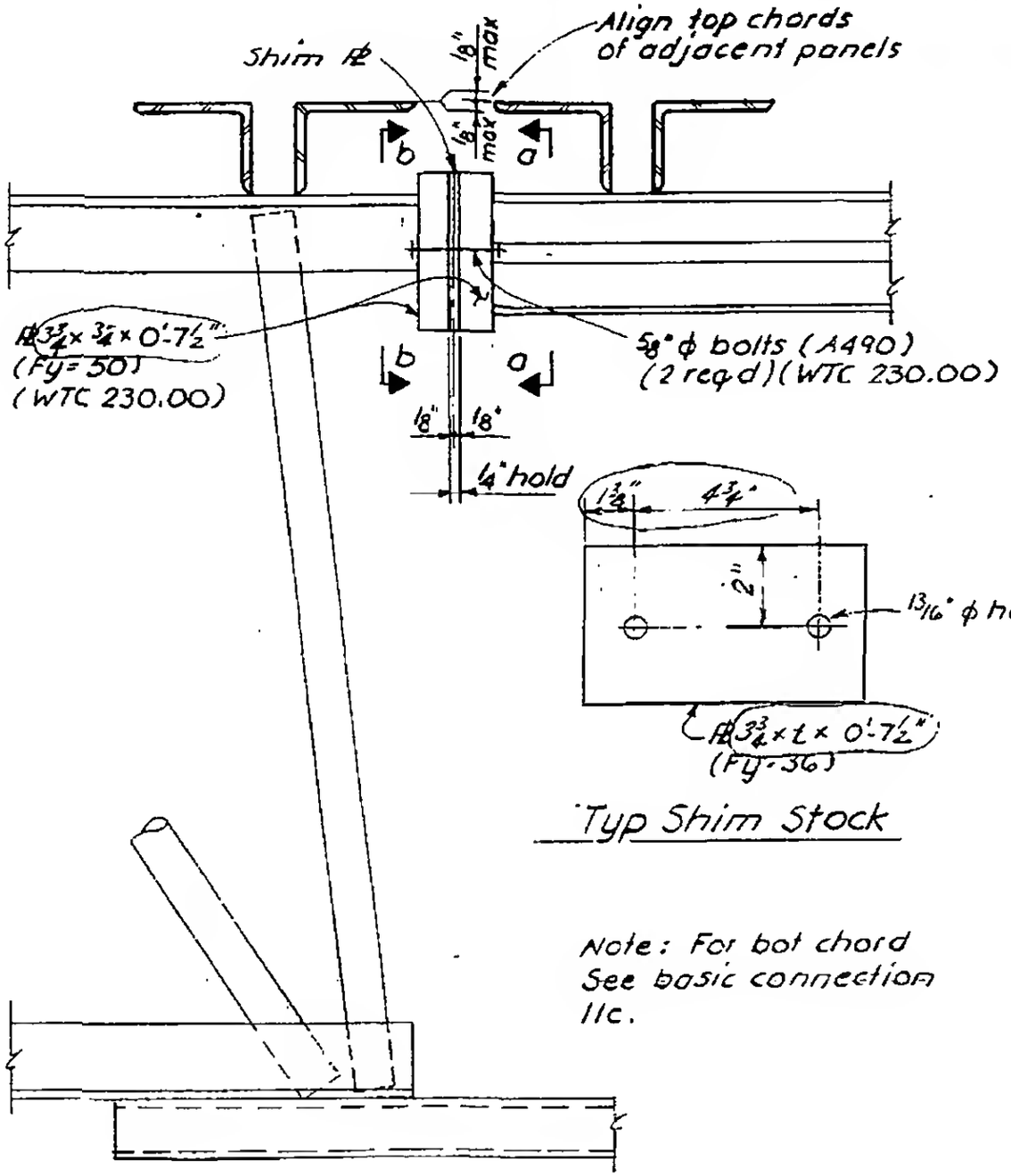
2. Use E80XX electrodes for field welds indicated

SKILLING HELLE CHRISTIANSEN ROBERTSON — Structural & Civil Engineers

PROJECT: THE WORLD TRADE CENTER | TITLE: FLOOR TRUSS CONNECTION DETAIL | DATE: 5-29-69

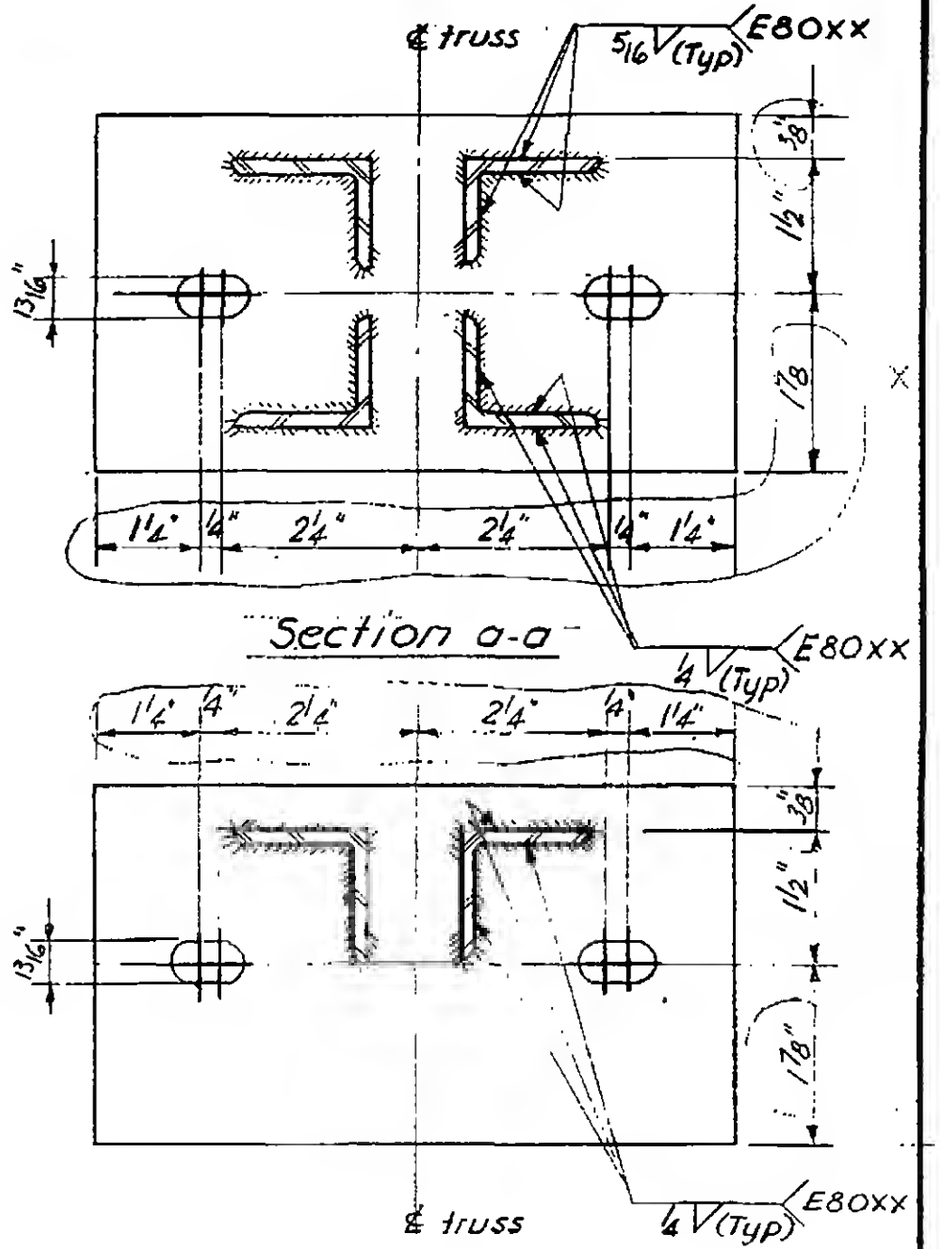
REVISIONS

5/13/69



Typ Shim Stock

Note: For bot chord See basic connection IIc.



Section b-b

Conn Detail (11-C)

Field bolted option

Notes:

1. Provide hardened washers under both bolt head and nut.
2. Provide shim stock in both 3/16" and 1/8" nominal sizes.

DESIGNED: J. Roet
DRAWN: F. Smith
REVIEWED: W. Brewer

11 - c/2